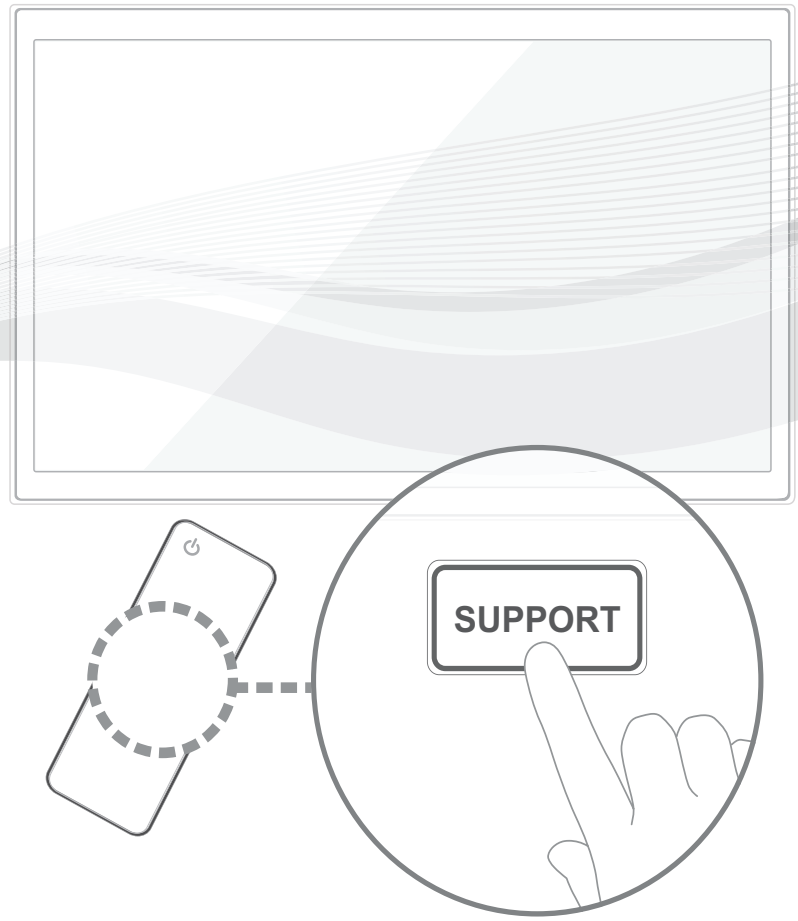
SAMSUNG

SERIES 7
7500

LED TV

user manual



Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/register

Model _____Serial No. _____

✎ If you have any questions, please call us at 1-800-SAMSUNG (1-800-726-7864) for assistance.

A detailed User's Manual is built into your TV. For more information about how to view this e-Manual see page 48.

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearances. Product design and specifications may be changed without notice.

Important Warranty Information Regarding

✎ See the warranty card for more information on warranty terms.

Wide screen format LED Displays (with 16:9 aspect ratios, the ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen, 16:9 ratio format, or expanded to fill the screen, if your model offers this feature, with the images constantly in motion. Displaying stationary graphics and images on the screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful about the television formats you select and the length of time you view them. Uneven LED aging as a result of format selection and use, as well as burned in images, are not covered by your Samsung limited warranty.

- SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT
  Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

  The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

  Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

  For the location of a SAMSUNG Authorized Service Center, please call toll-free:

  – In the United States : 1-800-SAMSUNG (1-800-726-7864)

  – In Canada : 1-800-SAMSUNG

Still image warning

Avoid displaying still images (such as jpeg picture files), still image elements (such as TV channel logos, stock or news bars at the screen bottom etc.), or programs in panorama or 4:3 image format on the screen. Constantly displaying still pictures can cause image burn-in on the LED screen, which will affect image quality. To reduce risk of this effect, please follow the recommendations below:

- Avoid displaying the same TV channel for long periods.
- Always try to display any image in full screen. Use the TV set's picture format menu for the best possible match.
- Reduce brightness and contrast to avoid the appearance of after-images.
- Use all TV features designed to reduce image retention and screen burn. Refer to the e-Manual for details.

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List of Features

- **3D**: This exciting new feature enables you to view 3D content.
- **SMART HUB**: Your gateway to all your content, integrated in one place.
  - Provides diverse entertainment choices.
  - Lets you control your entertainment life with an easy-to-use, user friendly user interface.
  - Gives you easy access to diverse apps, with more being added every day.
  - Lets you customize your TV by grouping and sorting apps to your taste.
- **AllShare Play**: Lets you access, view, or play photos, videos, or music located on USB devices, digital cameras, cell phones, and PCs. PCs and cell phones can be accessed wirelessly, through your wireless network.
- **Anynet+ (HDMI-CEC)**: Allows you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote.
- **e-Manual**: Provides a detailed, on-screen user's manual that's built into your TV. (page 48)
- **SMART Interaction**: Using this function, you can access and control menu options and functions using speech or motions. (page 27)

Accessories and Cables

✎ Please make sure the following items are included with your TV. If any items are missing, contact your dealer.

✎ The items' colors and shapes may vary depending on the model.

✎ Make sure that there are no accessories hidden behind or under packing materials after you open the box.

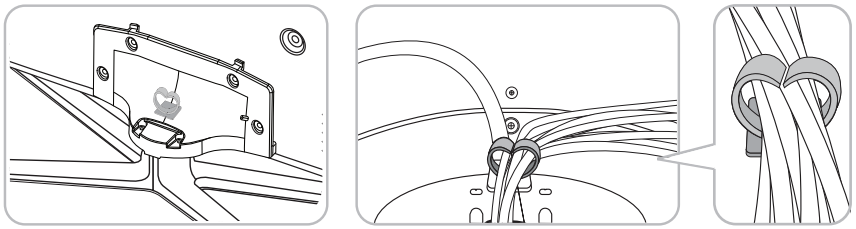
- Smart Touch Control (AA59-00626A) & Batteries (AA x 2)
- IR Blaster (BN96-22897A) & Batteries (AA x 4)
- Remote Control (AA59-00637A) & Batteries (AAA x 2)
- User Manual
- Cleaning Cloth (BN63-01798B)
- Warranty Card / Safety Guide
- 3D Active Glasses
- Power Cord

AV Adapter
(BN39-01154H)

Holder-Wire stand
(BN61-05491A)

Holder-Ring x 4
(BN96-18153A)

Assembling the Stand Wire Holder



Input Cables (Sold Separately)

You will need one or more of these cables to connect your TV to your antenna or cable outlet and your peripheral devices (Blu-ray players, DVD players, etc.)

To purchase the RS232 cable, contact www.SamsungParts.com.

RS232 (AA39-00311A)

HDMI

HDMI-DVI

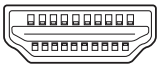
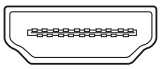
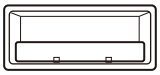
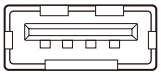
Audio

Component

Composite (AV)

Coaxial (RF)

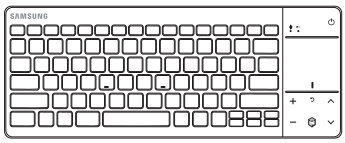
✎ Make sure you have the correct cable before plugging it in. Illustrations of common plugs and jacks are below.

	Cable Plugs	Ports / Jacks
HDMI		
USB		
Optical		

Warning

Do not plug cables in upside down.
Be sure to check the orientation of the plug before plugging it in.

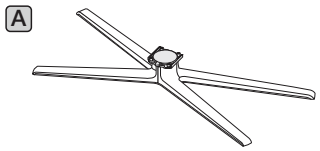
Wireless Keyboard (Sold Separately)



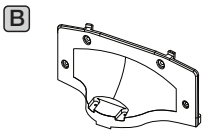
Wireless Keyboard

Installing the Stand

Stand Parts: 46 inches model only (UN46ES7500)



Stand x 1

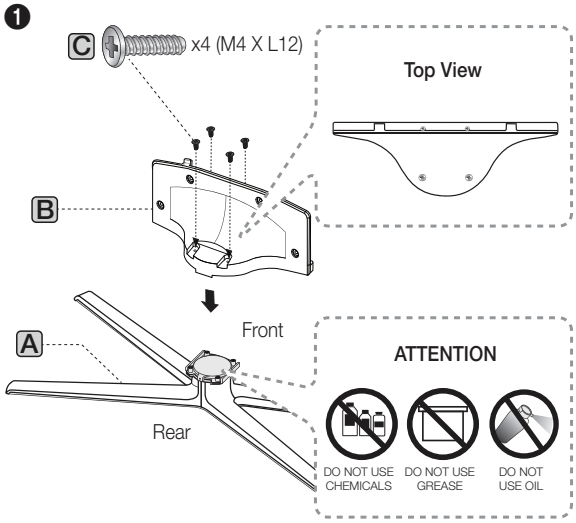


Guide Stand x 1

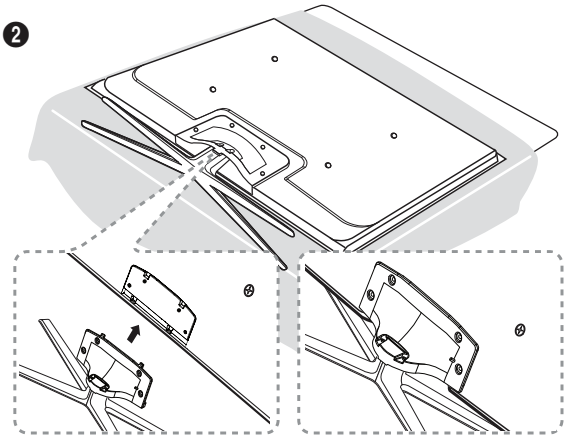
Screws x 8

Follow the steps below to connect the TV to the stand. For more detailed instructions, see the separate stand installation guide.

❶



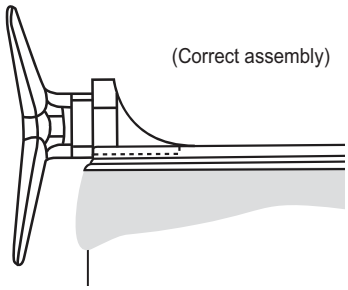
❷

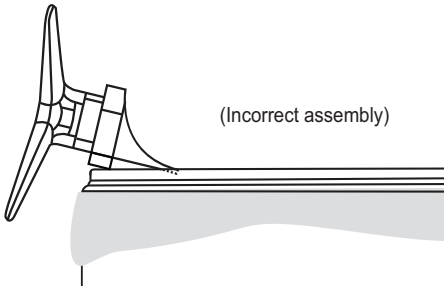


✎ Place a soft cloth over a table to protect the TV, and then place the TV on the cloth screen side down.

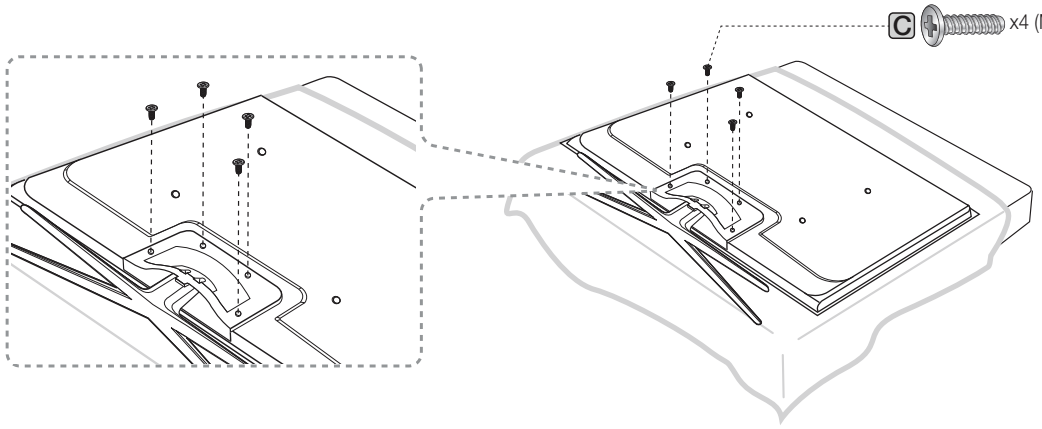
✎ Insert the Stand Guide into the slot on the TV's bottom.

❸ Side View

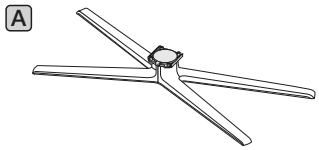




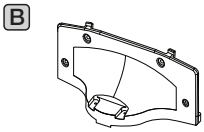
❹



Stand Parts: 55, 60 inches model only (UN55ES7500, UN60ES7500)



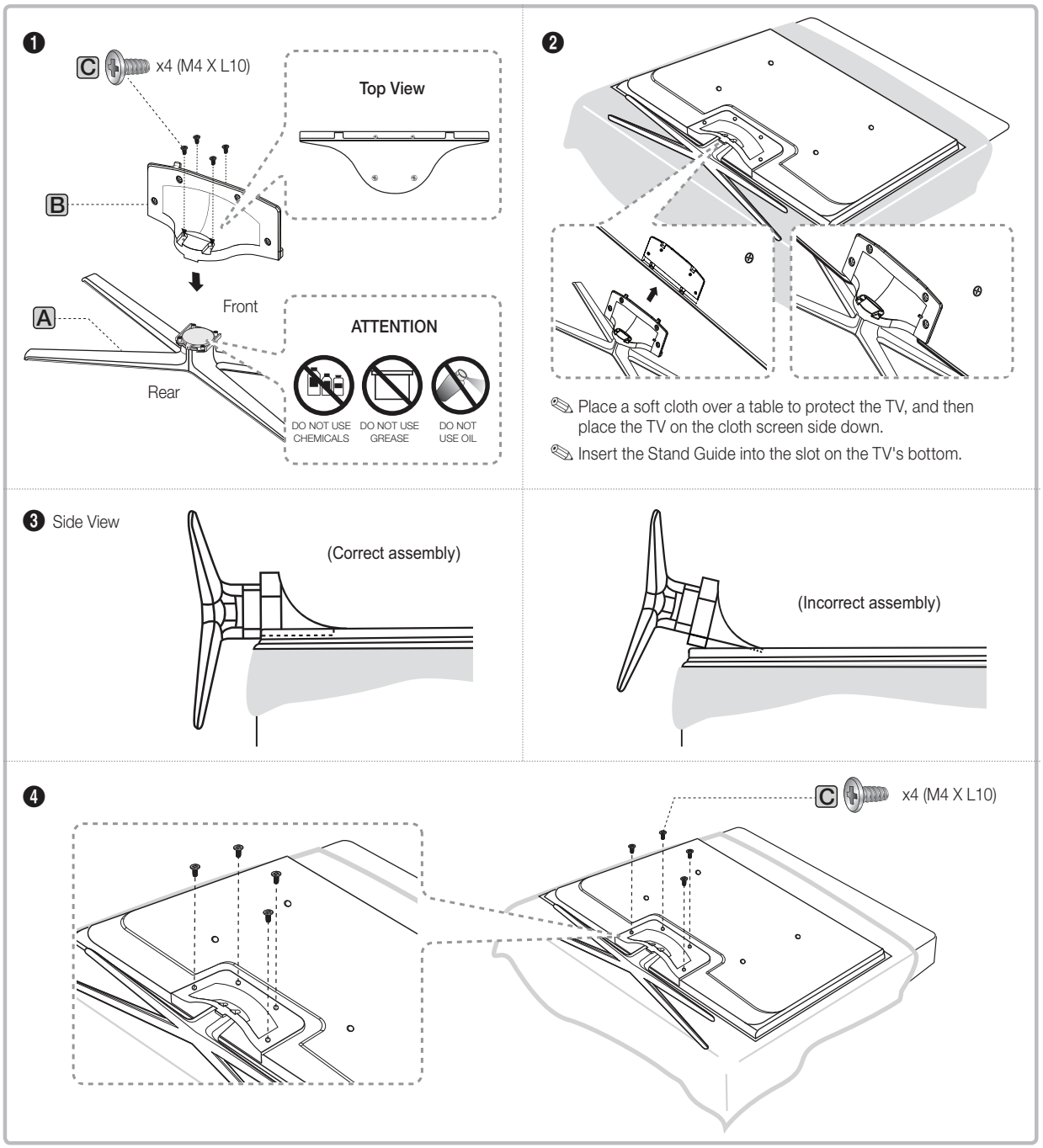
Stand x 1



Guide Stand x 1

Screws x 8

Follow the steps below to connect the TV to the stand. For more detailed instructions, see the separate stand installation guide.



✎ NOTE

- Make sure to distinguish between the front and back of each component when assembling them.
- Make sure that at least two people lift and move the TV.
- Stand the product up before you tighten the screws. If you tighten the screws with the TV lying down, it may lean to one side when you stand it up.

⚠ **Do not insert your fingers into the stand base slot of the TV when installing the stand base.**

Installing the Wall Mount (Optional)

Wall or Ceiling Mounting

If you mount this product on a wall, it should be mounted only as recommended by the manufacturer. Unless it is correctly mounted, the product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

Installing the Wall Mount Kit

The wall mount kit (sold separately) lets you mount the TV on the wall.

For detailed information about installing the wall mount, see the instructions provided with the wall mount. We recommend you contact a technician for assistance when installing the wall mount bracket. We do not advise you to do it yourself. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own.

To order the wall mount kit, contact Samsung Customer Care at 1-800-SAMSUNG (1-800-726-7864).

VESA Wall Mount Kit Notes and Specifications

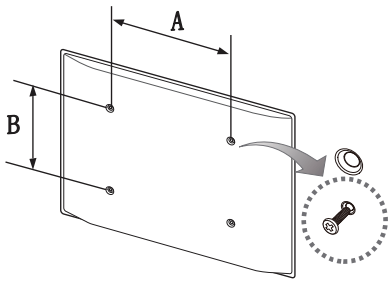
✎ Install your wall mount on a solid wall perpendicular to the floor. Before attaching the wall mount to surfaces other than plaster board, please contact your nearest dealer for additional information. If you install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury.

✎ NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- Samsung wall mount kits contain a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard length or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.

- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always have two people mount the TV on a wall.

Product Family	TV size in inches	VESA screw hole specs (A * B) in millimeters	Standard Screw	Quantity
LED-TV	26	100 X 100	M4	4
	32 – 40	200 X 200	M6	
	46 – 60	400 X 400	M8	

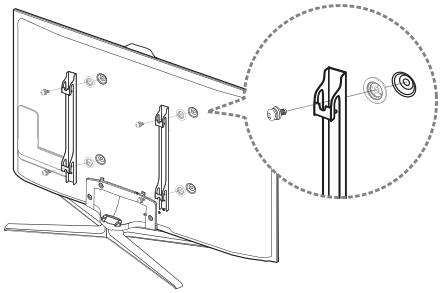


✎ Remove the screws in the mounting holes before you install the wall mount.

⚠	Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Installing a Wall Mount from Another Manufacturer

To install a wall-mount from another manufacturer, use the Holder-Ring.

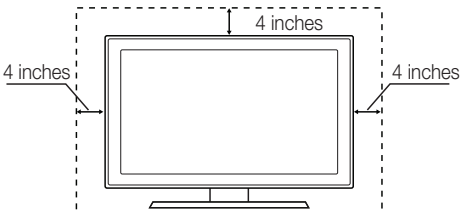
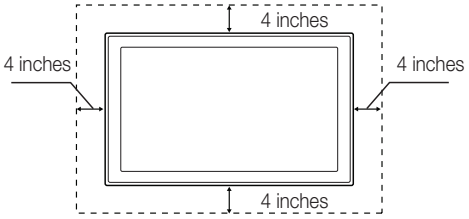


Providing Proper Ventilation for Your TV

When you install your TV, maintain a distance of at least 4 inches between the TV and other objects (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to maintain proper ventilation may result in a fire or a problem with the product caused by an increase in its internal temperature.

✎ Whether you install your TV using a stand or a wall-mount, we strongly recommend you use parts provided by Samsung Electronics only.

- If you use parts provided by another manufacturer, it may cause difficulties with the product or result in injury caused by the product falling.

Installation with a stand.	Installation with a wall-mount.
	

Other Warnings

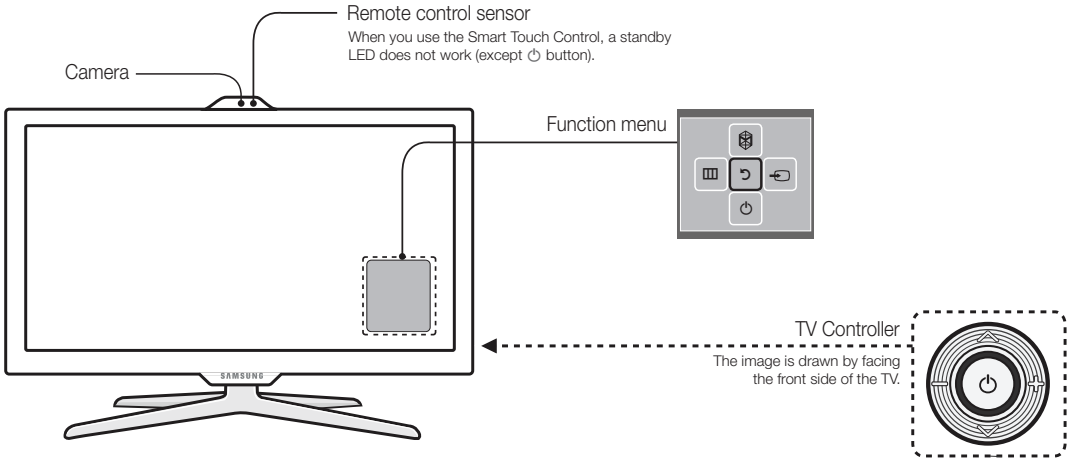
✎ The actual appearance of the TV may differ from the images in this manual, depending on the model.

✎ Be careful when you touch the TV. Some parts can be somewhat hot.

Using the TV's Controller (Panel Key)

The TV's Controller, a small joy stick like button on the rear right side of the TV, lets you control the TV without the remote control.

✎ The product color and shape may vary depending on the model.


Remote control sensor
When you use the Smart Touch Control, a standby LED does not work (except ⏻ button).
Camera
Function menu
TV Controller
The image is drawn by facing the front side of the TV.
SAMSUNG

✎ Follow these instructions facing the front of your TV.

✎ When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

✎ When you use a TV camera, you should check whether a tape attached or not in rear of the TV camera, and then you can use a TV camera after adjust a camera angle. When you don't want to use a TV camera, we recommend to use after a camera lens fixes to upwards. In this case, **Face recognition** and **Motion Control** are not available.

Power on	Turn the TV on by pressing the Controller when the TV is in standby mode.
Adjusting the volume	Adjust the volume by moving the Controller from side to side when the power is on.
Selecting a channel	Select a channel by moving the Controller upwards and downwards when the power is on.
Using the Function menu	To view and use the Function menu, press and release the Controller when the power is on. To close the Function menu, press and release the Controller again.
Selecting the SMART HUB (⬡)	With the Function menu visible, select **SMART HUB** (⬡) by moving the Controller upwards. The **SMART HUB** main screen appears. Select an application by moving the Controller, and then pressing the Controller.

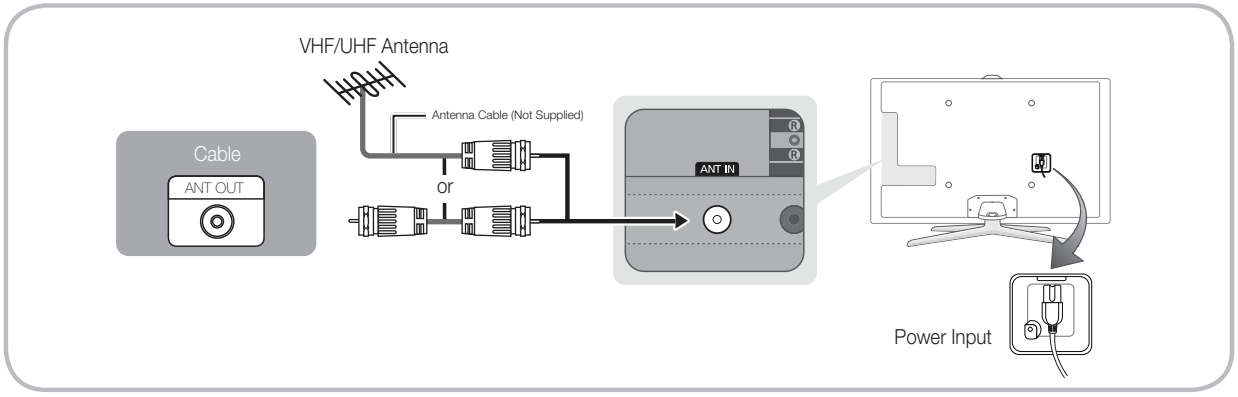
Selecting the MENU (▥)	With the Function menu visible, select the **MENU** (▥) by moving the Controller to the left. The OSD (On Screen Display) Menu appears. Select an option by moving the Controller to the right. Move the Controller to the right or left, or upwards and downwards to make additional selections. To change a parameter, select it, and then press the Controller.
Selecting a Source (⇥)	With the Function menu visible, open the **Source** (⇥) list by moving the Controller to the right. The **Source** list screen appears. To select a source, move the Controller upwards and downwards. When the source you want is highlighted, press the Controller.
Power Off (⏻)	With the Function menu visible, select **Power Off** (⏻) by moving the Controller downwards, and then press the Controller.

✎ To close the **Menu**, **Smart Hub**, or **Source**, press the Controller for more than 1 second.

Standby mode

Your TV enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your TV in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

Connecting the Power Cord and the Antenna or Cable Connection



✎ Plug the power cord into a wall outlet only after you have made all other connections.

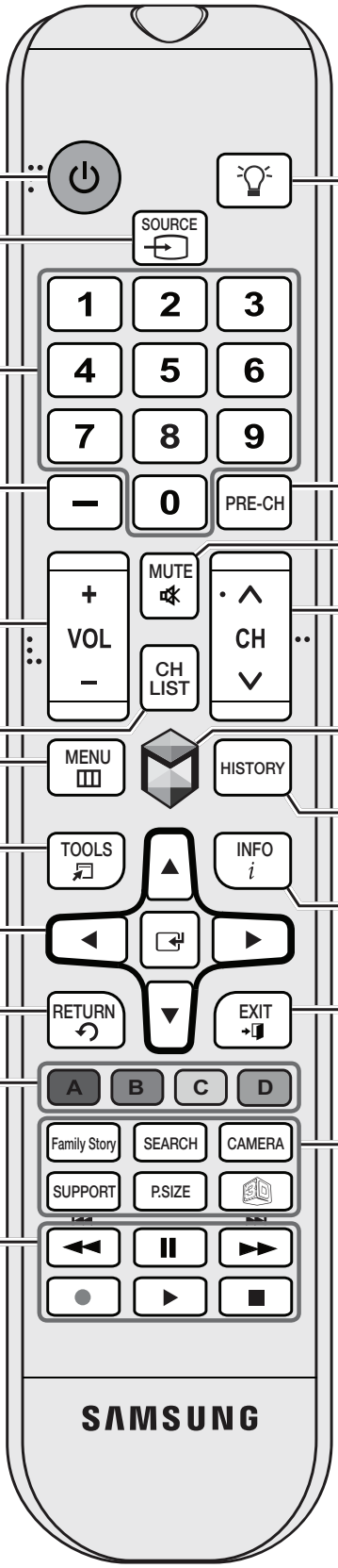
✎ If you are connecting your TV to a cable or satellite box using HDMI, Component, or Composite connections, you do not need to connect the ANT IN jack to an antenna or a cable connection.

✎ Use caution when you move or swivel the TV if the antenna cable is tightly connected. You could break the antenna jack off the TV.

The Standard Remote Control

Learn where the function buttons are on your remote. Especially note **SOURCE**, **MUTE**, **VOL**, **CH**, **MENU**, **TOOLS**, ↵, **INFO**, **CH LIST**, **RETURN**, and **EXIT**.

✎ This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.



Turns the TV on and off.

Displays and selects the available video sources. (page 25)

Gives direct access to channels.

Press to select additional digital channels being broadcast by the same digital station. For example, to select channel '54-3', press '54', then press '-' and '3'.

Adjusts the volume.

Displays channel lists on the screen.

Opens the OSD (Menu).

Quickly select frequently used functions. Use this button in a specific feature. For details, refer to the e-Manual.

Moves the cursor, selects the on-screen menu items, and changes the values seen on the TV's menu.

Returns to the previous menu.

Use these buttons according to the directions on the TV's screen.

Use these buttons in a specific feature. For details, refer to the e-Manual.

Turns the remote control light on or off. When on, the buttons become illuminated for a moment when pressed. (Using the remote control with this button set to On will reduce the battery usage time.)

Returns to the previous channel.

Cuts off the sound temporarily.

Changes channels.

Brings up the Smart Hub applications. See e-Manual chapter Advanced Features → Smart Hub.

Displays a list of recently used functions. You can select a function again easily and quickly.

Displays information on the TV screen.

Exits the menu.

Family Story: Connect to the **Family Story** application. See e-Manual chapter Advanced Features → Family Story.

SEARCH: Starts search function. See e-Manual chapter Advanced Features → Search.

CAMERA: Connect to camera application.

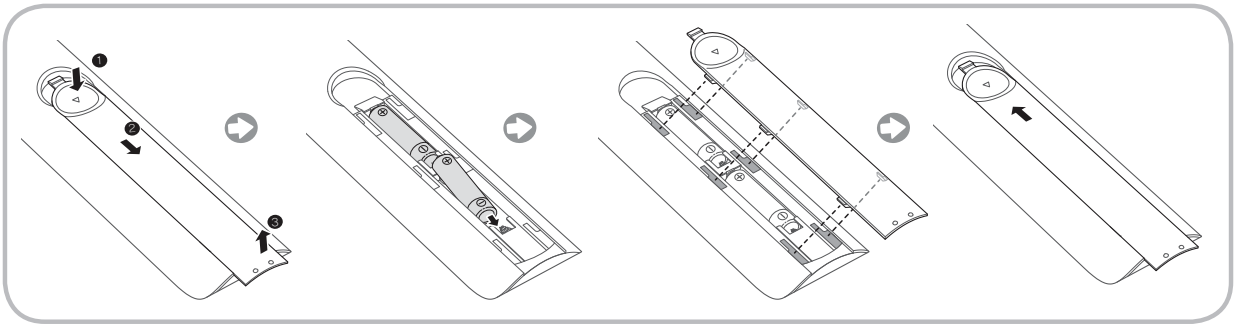
SUPPORT: Lets you use various support functions including the e-Manual. (page 48)

P.SIZE: Lets you select the **Picture Size**. See e-Manual chapter Basic Feature → Changing the Picture Size.

📖: Turns the 3D image on or off. See e-Manual chapter Advanced Features → Using the 3D function.

Installing batteries (Battery size: AAA)

Match the polarity of the batteries to the symbols in the battery compartment.



✎ Your TV also comes with a Smart Touch Control. For information about the Smart Touch Control, see page 39.

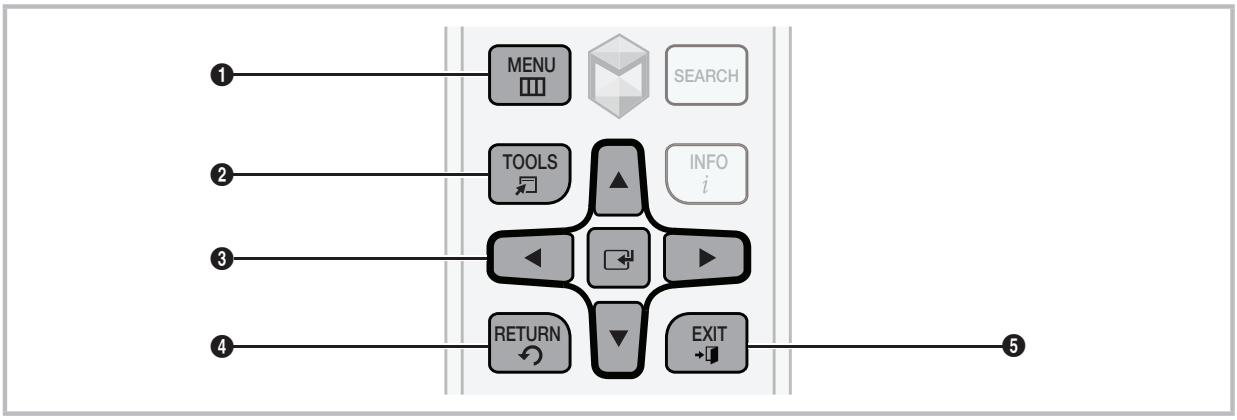
✎ **NOTE**

- Install the batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
- Use the remote control within 23 feet of the TV.
- Bright light may affect the performance of the remote control. Avoid using it near fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.

How to Navigate Menus

Your TV's Main and Tools menus contains functions that let you control the TV's features. For example, in the Main menu you can change the size and configuration of the picture, its brightness, its contrast and so on. There are also functions that let you control the TV's sound, channel configuration, energy use, and a host of other features. To access the main, on-screen menu, press the **MENU** button on your remote. To access Tools menus, press the **TOOLS** button. Tools menus are available when the **TOOLS** menu Icon is displayed on the bottom right of the screen

The illustration below displays the buttons on the standard remote you use to navigate the menus and select and adjust different functions. For information about using the Smart Touch Control, see page 39.



1. **MENU** button: Displays the main on-screen menu.
2. **TOOLS** button: Displays the Tools menus when available.
3. and Direction buttons: Use the Direction buttons to move the cursor and highight an item. Use the Enter button to select an item or confirm the setting.
4. **RETURN** button: Returns to the previous menu.
5. **EXIT** button: Exits the on-screen menu.

How to Operate the Main Menu (OSD - On Screen Display) Using the Standard Remote

The access steps may differ depending on the menu option you select.

1	**MENU**	The main menu options appear on the screen: **Picture**, **Sound**, **Channel**, **Network**, **System**, **Support**.
2	▲ / ▼	Select a main menu option on the left side of the screen with the ▲ or ▼ button.
3		Press to access the sub-menus.
4	▲ / ▼	Select the desired submenu with the ▲ or ▼ button.
5	▲ / ▼ / ◀ / ▶	Adjust the value of an item with the ◀, ▶, ▲, or ▼ button. The adjustment in the OSD may differ depending on the selected menu.
6		Press to confirm the selection.
7	**EXIT**	Press **EXIT**.

Configuring the Basic Settings in Initial Setup

When you turn the TV on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the TV's basic settings. Plug the power cord into a wall outlet, and then press the ⏻ button to turn on the TV.

✎ Use the standard remote to run the Initial Setup.

✎ **Setup** is available only when the input source is set to TV. See "Changing the Input Source" (page 25).

✎ To return to the previous step in the **Setup** sequence, select **Previous**.

✎ If you are not using a cable box or satellite box, make sure you have connected the TV to an antenna or cable connection before you turn on the TV. See page 13 for instructions.

✎ If you want to configure a wired network connection during **Setup**, make sure you've connected a LAN cable to your TV. See pages 36 for instructions. If you want to configure a wireless network connection during **Setup**, make sure your wireless modem or router is on and working.

1	**Menu Language**: Select a Language.	After you press the ⏻ button, the Start screen appears. Select **Next** to continue. The Menu Language screen appears. Select the menu language you want using your remote, and then select **Next**. The TV will display on-screen menus using the language you select beginning with the next step in the **Setup** process.
2	**Use Mode**: Select the Home Use Mode.	On the **Use Mode** screen, select the **Home Use** using your remote, and then select **Next**. The Network Settings screen appears. ✎ **Store Demo** is for retail environments only. If you select **Store Demo**, some functions will not work, and the TV will reset all functions to their factory default after a certain period of time. For more information about **Store Demo**, go to the end of this section.
3	**Network Settings**: Configure the network settings ✎ To configure later, select **Skip**. You can set up the network connection later using the on-screen **Network** menu.	To configure your network settings, select **Start** using your remote, and then go to 3A - **Wireless Network** or 3B - **Wired Network** on the next page. If you do not know your network configuration information or want to configure the settings later, or do not have a network, select **Skip**, and then go to 6 - **Auto Program** (1) on page 19. To configure network settings later, refer to "Setting up the Wired or Wireless Network" in the e-Manual or see the Network Connection sections in this manual (pages 35 and 37).

3A Wireless Network

1. The TV searches for and then displays all the wireless networks within range. When done, it displays a list of the networks. In the list of networks, move the Highlight to select a network, and then select **Next**. If the selected network requires a Security Key, the Security Key screen appears.

   ✎ If you have a WPS(PBC) compatible router, select **WPS(PBC)** instead, and then follow the directions on the screen. When done, go to Step 4.

2. Enter your network security key or WPS PIN using your remote.

   ✎ Enter numbers and letters using your remote.

   - If you are using the standard remote, you can enter numbers by pressing the number buttons on the remote.
   - To enter a letter, move the Highlight to the letter, and then select it. You can enter numbers in the same fashion if you choose.

   ✎ To display capital letters (or redisplay small letters if capital letters are displayed), select **Caps** or **Shift**.

   ✎ To display symbols and punctuation, select ★. To redisplay letters, select ★ again.

3. When done, select **Next** if you have entered a security key or **WPS PIN** if you have entered a WPS PIN.

4. The TV checks the wireless connection. If the connection is successful, the **You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider.** message appears. Select **Next**, and then go to 4 **Software Upgrade** Step.

   ✎ If the connection fails, select **Previous**, repeat Step 1 and 2, carefully re-enter your security key or WPS PIN, then repeat Steps 3 and 4. If it fails again, select **Next** on the "Connection Failed" screen, and then go to 6 - **Auto Program** (1) on the next page. Configure your network later through **Network Settings** in the TV's Menu. For more information, refer to "Setting up the Wired or Wireless Network" in the e-Manual or see the Network Connection sections in this manual (pages 35 and 37).

3B Wired Network

The TV checks the network connection, then displays the **You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider.** message appears. Select **Next**. The **Software Upgrade** screen appears.

4	**Software Upgrade**: Update the software to the latest version ✎ To update later, select **Skip**.	When **Network Settings** is complete, your TV will check for a new software version automatically. If new software is available, the TV downloads and installs the new software. When the download is complete, select **Next**. ✎ If you want to upgrade later, select **Skip**. For more information, refer to **Software Update** (Preference Features → Support Menu) in the e-Manual. ✎ This may take some time, depending on your network status. ✎ You can only upgrade software if your TV has an active network connection. ✎ If no new update software is available, a no new updates message appears on the screen. Select **OK**.
5	**Terms of Service Agreement**	The **Terms of Service Agreement** screen appears. ✎ The screen can take a few seconds to display. The **General Disclaimer** screen appears. Select **Agree**. The **Privacy Policy** screen appears. Select **Agree**. ✎ To use **Smart Hub**, you must select **Agree** for the **Terms of Service Agreement**.
6	**Auto Program** (1): Select where your TV signal comes from.	Select the appropriate option for your TV using your remote, and then select **Next**. • **I use an antenna cable connection to the TV.**: Select if you have an antenna or a cable connection without a set-top box. If you select this option, go to 7 - **Auto Program** (2) Step. • **I use a set-top box.**: Select if you have a satellite or cable set-top box. You do not need to run **Auto Program**. If you select this option, go to 9 - **Clock** on the next page.
7	**Auto Program** (2): Select the search options.	1. Select **Air** or **Cable** using your remote. A check appears on your selection. When done, select **Next**. You can check both if you have both connected. 2. If you selected **Air**, go to 8 - **Auto Program** (3). 3. If you selected **Cable**, you'll go to the cable system screen. Select **Digital Cable System**. The option window appears. Select the correct cable signal format; **STD**, **HRC**, or **IRC**. Most cable systems use **STD** (Standard). Repeat the same process with **Analog Cable System**. 4. When done, select **Next**.

8	**Auto Program** (3): Channel memorization	Channel memorization stars. Channel memorization can take up to 45 minutes, depending on your cable system. For more information, refer to **Auto Program** (Channel Menu → Memorizing Channels) in the e-Manual. ✎ Select **Stop** at any time to halt the memorization process.
9	**Clock**: Set the Clock	Select **Auto** or **Manual**, and then select **Next**. ✎ If you selected **I use a set-top box.** in 6 - **Auto Program** (1), you can only set the current time and date manually, using your remote. Auto If you selected **Auto**, the TV will automatically download the correct time from a digital channel. The **Time Zone** screen will appear. Select your **Time Zone**, and then select **Next**. The **DST** (Daylight Savings Time) screen will appear. The **DST** function sets the time ahead one hour to adjust the clock for Daylight Savings Time. Select **On** if you want to turn the DST adjustment on. Select **Off** to turn off the DST adjustment. You can also turn the DST function on through the TV's on screen menu (**Menu → System → Time → Clock → DST**). Manual If you selected **Manual**, you'll go to the **Clock** screen. Select **Date** or **Time**. You can set the current date and time using your remote. When done setting the **Date** and **Time**, select **Next**.
10	**Voice and Motion Control**: Setting the Voice and Motion Control function.	You can turn the **Voice and Motion Control** function on or off. Select **Off** or **On**, and then select **Next**.
11	**Setup** Complete	Review the Setup data, and then select **Close** to finish. ✎ The completed settings are displayed.

If You Want to Rerun Setup...

Menu → System → Setup

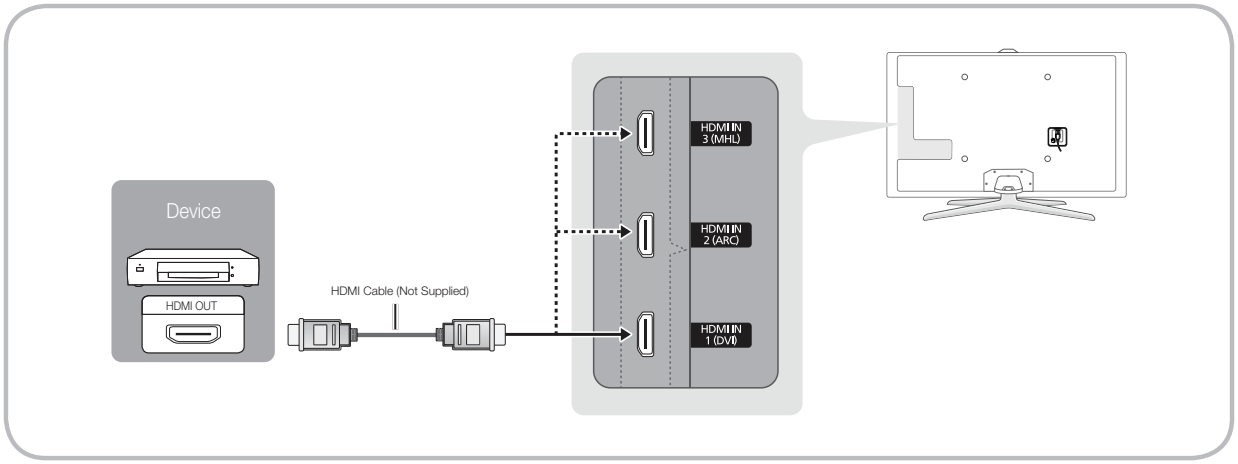
If You Want to Turn the Store Demo Mode On or Off.

To set or unset **Store Demo** mode outside of **Setup**, press and release the Controller when the power is on. The Function menu screen appears. Push the Controller to the left (to **MENU** (▥)) and hold for more than 5 seconds. The **Store Demo** mode is set. To cancel **Store Demo**, bring up the Function menu using the Controller, push the Controller to the right (to **Source** (⏎)) and hold for more than 5 seconds. See page 12 for information about the Controller.

Using an HDMI Cable for an HD connection (up to 1080p, HD digital signals)

For the best quality HD picture, we recommend using an HDMI connection.

Use with DVD players, Blu-ray players, HD cable boxes, and HD Set-Top-Box satellite receivers.

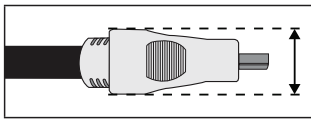


✎ **HDMI IN 1 (DVI), HDMI IN 2 (ARC), HDMI IN 3 (MHL)**

- For the best picture and audio quality, connect digital devices to the TV using HDMI cables.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
  - To connect the TV to a digital device that does not support HDMI output, use an HDMI to DVI cable and audio cables.
- If you connect an external device to the TV that uses an older version of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- We recommend using a basic high-speed HDMI cable or an HDMI cable that is Ethernet compatible. Note that this product does not support the Ethernet function via HDMI.
- This product supports the 3D and ARC (Audio Return Channel) functions via an HDMI cable. Note that the ARC function is supported by the **HDMI IN 2 (ARC)** port only.
  - If **3D Auto View** is set to **On**, some functions such as SMART HUB may be disabled. In this case, set **3D Auto View** or **3D Mode** to **Off**.
- The ARC function allows digital audio to output via the **HDMI IN 2 (ARC)** port on the TV. It can be enabled only when the TV is connected with an audio receiver that supports the ARC function.

- This product supports the Mobile High-Definition Link (MHL) function via an HDMI-MHL cable. Note that the MHL function is supported by the **HDMI IN 3 (MHL)** port only.
- The MHL function lets you display a mobile device's screen via the **HDMI IN 3 (MHL)** port on the TV. It can be enabled only when the TV is connected with a mobile device that supports the MHL function. For more detailed information, see "Using the MHL function" in e-Manual.
- When you use MHL devices via a MHL cable, **Picture Size** is set to **Screen Fit** automatically. But if you use MHL devices via an HDMI cable, **Picture Size** is not set to **Screen Fit** automatically. To view an original size, select **Screen Fit** in the **Picture Size** menu (**Menu → Picture → Picture Size**).
- If you use MHL devices via an HDMI cable, The TV will be recognized as the HDMI input. In this case, the TV may work differently than when you use MHL devices via a MHL cable.

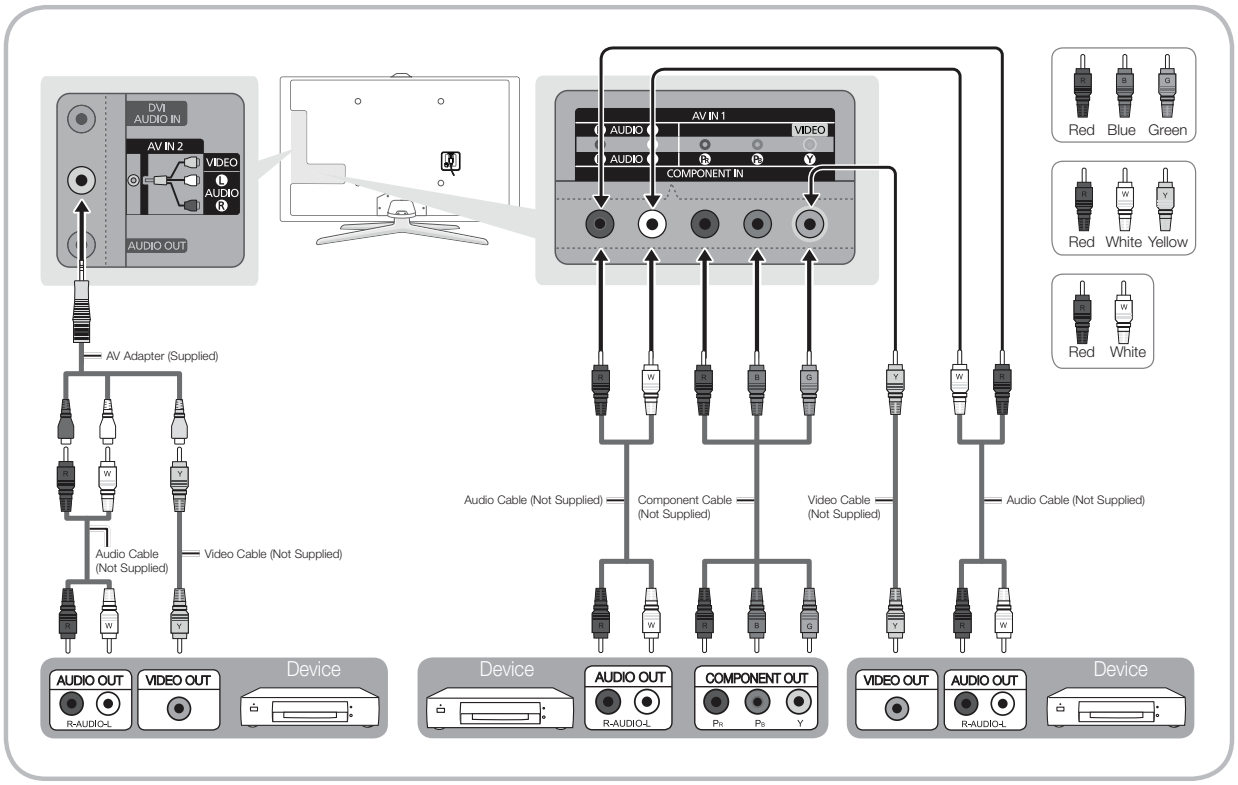
✎ For the best cable connection to this product, use cables no thicker than the cable illustrated below:



- Maximum thickness - 0.55 inches (14mm)

Using a Component Cable (up to 1080p HD signals) or an Audio/Video Cable (480i analog signals only)

Use with DVD players, Blu-ray players, cable boxes, STB satellite receivers, VCRs.

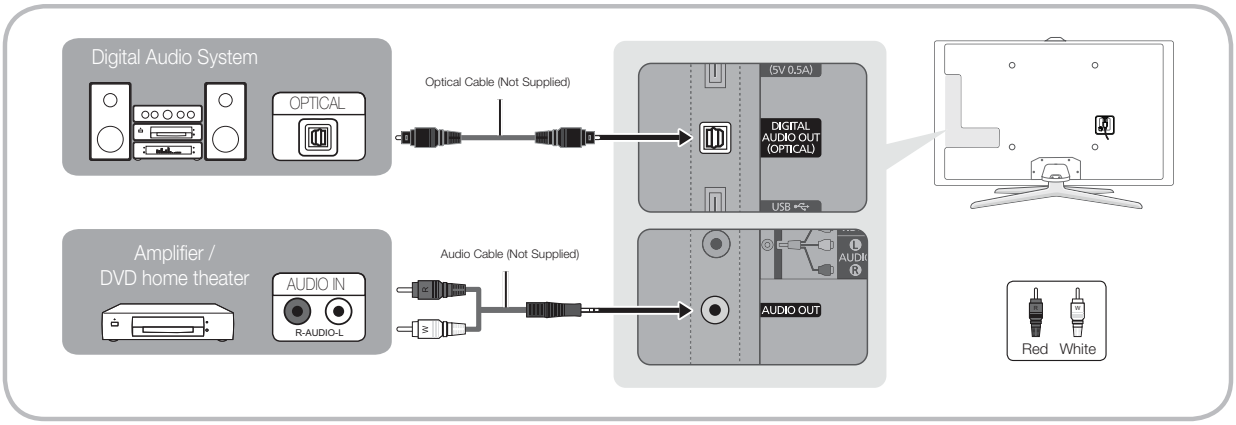


✎ For better picture quality, we recommend the Component connection over the A/V connection.

✎ When you connect a Video cable to **AV IN 1**, the color of the **AV IN 1 [VIDEO]** jack (green) will not match the video cable (yellow).

Using an Optical (Digital) Cable Connection and a Standard Stereo Cable Connection

Use with Digital Audio Systems, Amplifiers, and Home Theaters.



✎ **DIGITAL AUDIO OUT (OPTICAL)**

- When you connect a Digital Audio System to the **DIGITAL AUDIO OUT (OPTICAL)** jack, decrease the volume of both the TV and the system.
- 5.1 CH (channel) audio is available when you connect the TV to an external device supporting 5.1 CH.
- When the receiver (or home theater) is set to on, you can hear sound output from the TV's optical jack. When the TV is receiving a DTV signal, the TV will send 5.1 CH sound to the home theater receiver. When the source is a digital component such as a DVD player / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and you connected it to the TV via HDMI, you will only hear 2 CH audio from the home theater receiver. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theater.

✎ **AUDIO OUT**: Connects to the audio input jacks on your amplifier/DVD home theater.

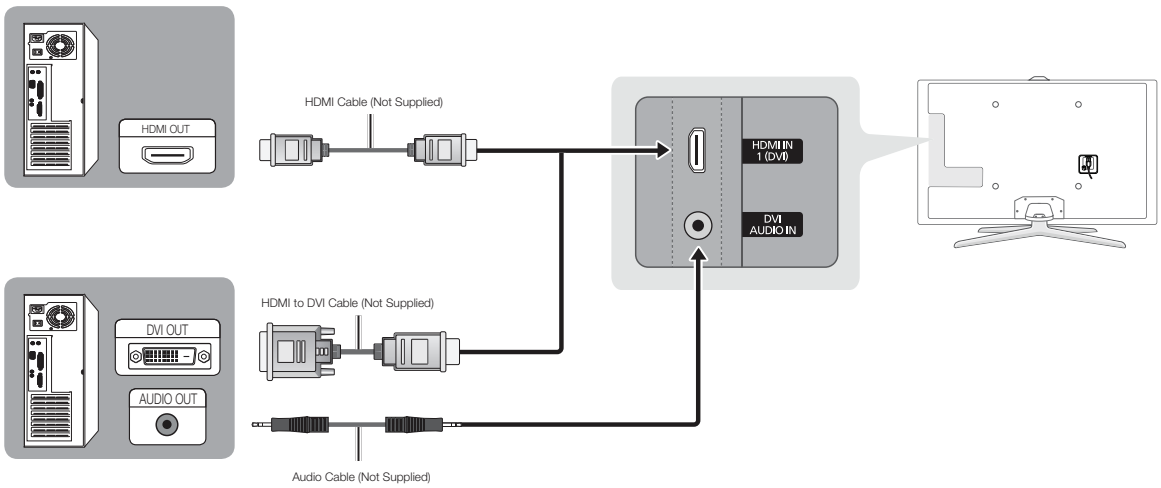
- When connecting, use the appropriate connector.
- When you connect an audio amplifier to the **AUDIO OUT** jacks, decrease the volume of the TV and adjust the volume level with the amplifier's volume control.

Connecting to a PC

Using an HDMI cable or an HDMI to DVI cable

✎ Your PC may not support an HDMI connection.

✎ Use your PC speakers for audio.

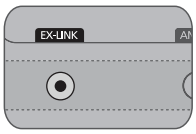


The optimal resolution is 1920 X 1080 @ 60 Hz. See the Display Resolution page for all available resolutions (page 58).

✎ **NOTE**

- For an HDMI to DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.
- For PCs with DVI video out jacks, use an HDMI to DVI cable to connect the DVI out on the PC to the **HDMI IN 1 (DVI)** jack on the TV. Use the PC's speakers for audio.
- PC (D-Sub) input is not supported.

The EX-Link Cable Connection



The **EX-LINK** connection is for service only.

Source

⌂ → **Source**

When you are watching TV and you want to watch a movie on your DVD player or Blu-ray player or switch to your cable box or STB satellite receiver, you need to change the Source.

■ **TV** / **HDMI1/DVI** / **HDMI2** / **HDMI3** / **AV1** / **AV2** / **Component**

1. Press the ⌂ button on your remote. The **Smart Hub** screen appears.
2. Select **Source**. The **Source** screen appears.
3. Select a desired external input source.

✎ Alternatively, you can access the **Source** screen by selecting the SOURCE button on your standard remote or selecting **Source** with the Smart Touch Control (see page 39).

✎ You can only choose external devices that are connected to the TV. In the displayed **Source** list, connected inputs are highlighted.

How to Use Edit Name

Edit Name lets you associate a device name to an input source. To access **Edit Name**, open the **Tools** menu when the **Source** list is displayed. The following selections appear under **Edit Name**:

■ **VCR** / **DVD** / **Cable STB** / **Satellite STB** / **PVR STB** / **AV Receiver** / **Game** / **Camcorder** / **PC** / **DVI PC** / **DVI Devices** / **TV** / **IPTV** / **Blu-ray** / **HD DVD** / **DMA**: Select an input jack, and then select the name of the device connected to that jack from the list that appears. For example, if you have your Blu-ray player attached to **HDMI IN 2 (ARC)**, select **Blu-ray** for that input.

✎ If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI cable, assign **PC** to **HDMI1/DVI** in **Edit Name**.

✎ If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI PC** to **HDMI1/DVI** in **Edit Name**.

✎ If you connect an AV device to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign **DVI Devices** to **HDMI1/DVI** in **Edit Name**.

Information

You can see detailed information about the selected external device.

Refresh

If the external devices are not displayed in the **Source** list, open the **Tools** menu, select **Refresh**, and then search for the connected devices.

✎ Alternatively, you can refresh the **Source** list by selecting A using your remote.

Using Smart Hub

Smart Hub provides easy, on-screen access to five functions that let you manage and access channels, set favorite channels, access photos, videos, or music on USB devices, cameras, and PCs, select video sources, and set the TV to turn on automatically when a show you want to watch is on. The five functions are listed below:

- **Channel**: Lets you manage channels, select favorite channels, add channels to and delete channels from the **Added Ch.** list (the channels that appear when you press the ∨ CH ∧ button.)
- **Web Browser**: Lets you browse the Internet.
- **Schedule Manager**: Lets you schedule shows and channels for viewing.
- **Source**: Lets you select a connected external video source to view.
- **AllShare Play**: Lets you access, view, or play photos, videos, or music located on USB devices, digital cameras, cell phones, and PCs. PCs and cell phones can be accessed wirelessly, through your wireless network.

Smart Hub also provides an easy-to-use gateway to a host of on-line media and entertainment including apps from the Samsung Apps store, streaming videos and movies, kids sites, and more.

✎ To access **Smart Hub**, press the ⌂ button on your remote.

✎ For more information about **Smart Hub**, see the e-Manual.

SMART Interaction

Using this function, you can access and control menu options and functions using speech, motions or face recognition.

INFORMATION BOOKLET DISCLAIMER

- **Face recognition Log-in**

  In order for **Face recognition** to function, a thumbnail image of your face will be stored in your TV for logging-in purposes.

  Logging into the **Smart Hub** using **Face recognition** may be less secure than using an ID and password.

- **TV Camera Usage**

  Before using the TV Camera, you should be aware that under some circumstances and under certain legal conditions your misuse of the TV Camera can result in legal liability for you. By using the TV Camera, you agree that you will not use the camera (i) in locations where cameras are generally prohibited (such as bathrooms, locker rooms or changing rooms), (ii) in any manner that will result in an invasion of a person's privacy or (iii) in violation of any applicable laws, regulations or statutes.

  When you use a TV camera, you should check whether a tape attached or not in rear of the TV camera, and then you can use a TV camera after adjust a camera angle. When you don't want to use a TV camera, we recommend to use after a camera lens fixes to upwards. In this case, **Face recognition** and **Voice and Motion Control** are not available.

Voice Control

Menu → System → Voice and Motion Control → Voice Control

Enable or disable the voice recognition function. Lets you access and control menu options and functions by speaking letters or words.

✎ For accurate voice recognition, refer to the Standard Voice Command list at the Samsung web site (www.samsung.com → support → Manuals & Downloads).

✎ **Voice Control** function can be affected recognition by unclear pronunciation, voice level, or surrounding noise.

✎ To use **Voice Control**, you must pronounce words and phrases clearly and correctly in the language you selected in **Language**.

✎ Ambient noise may cause **Voice Control** to malfunction. (Appropriate surrounding noise: Below 40dB)

Your TV can "hear" your voice commands in two ways:

– Using the TV's microphone. (Distant Recognition)

  ✎ We are recommended using **Voice Control** function within about 13 ft with your TV. You can check the usable distance by using **Voice Control Environment Test** (**System → Voice and Motion Control → Voice Control → Voice Control Environment Test**).

– Using the VOICE button on your remote. (Close Proximity Recognition)

✎ When you use the TV's microphone, the words may not be recognized because of ambient noise. If this occurs, try using the VOICE button on your remote. The TV will be able to recognize a voice command more easily.

✎ The VOICE button on your remote is always activated. If you want to use the TV's microphone, turn on **Voice Control** (**System** → **Voice and Motion Control** → **Voice Control**).

✎ Say a voice command to proper volume into the microphone of your remote within 0.3 – 0.9 ft. If voice level is too small or large, voice command may not be recognized.

✎ If a menu option or function is not supported by the **Voice Control** function, we suggest trying the **Motion Control** function. To use the **Motion Control**, raise your hand while opening it toward the screen, hold it for a moment and then wave it 3~4 time to the left and right. **Motion Control** starts. If the **Motion Control** starts, the cursor is displayed at the center of the screen and the **Motion Guide Bar Size** is at the bottom of the screen.

■ **Voice Control**

Turns the **Voice Control** function on or off.

✎ The VOICE button on your remote is always activated.

■ **Language**

Select the recognition language you want to use.

■ **Trigger Words**

You can select the **Trigger Words** that start the **Voice Control** function.

Alternatively you can turn on your TV using the **Trigger Words** if **Voice Control** function is set to **On**.

– If the **Trigger Words** is set to **Hi TV**, say **Hi TV Power On**.

– If the **Trigger Words** is set to **Smart TV**, say **Smart TV Power On**.

■ **Voice Command Bar Size**

Set the **Voice Command Bar Size** mode to **Minimum** or **Full**. **Minimum** displays the least number of words and phrases you can use. **Full** displays all the words and phrases.

■ **Voice Sensitivity**

You can configure the sensitivity of Voice recognition.

– **Howling**: Select howling levels.

– **Recognition responsiveness**: Select the responsiveness level of Voice recognition.

■ **Voice Control Environment Test**

You can test the amount of ambient noise level detected by the TV microphone.

- **Noise Test**: This test checks the amount of ambient noise detected by the TV microphone. Too much ambient noise will prevent Voice Command from functioning. To run, select **Next** using your remote. The test starts and takes a few seconds. Please keep as quiet as possible during the test.
- **Mic & Speaker Test**: Determines if the sound from the TV speakers picked up by the TV microphone will disrupt Voice Command. To run, select Start using your remote. The test starts and takes a few seconds. Please keep as quiet as possible during the test.

  ✎ Available only when **Speaker Select** is set to **TV Speaker**.
- **Voice Control Test**: This test checks the volume level and clarity of your voice for use with **Voice Control**. Select **Start** using your remote. After the test starts, say the test words listed in the instructions as loudly and clearly as you can.

  ✎ If the test is not successful, select **Retest**, and then say the words loudly and clearly again.

To use the Voice Control function, follow these steps:

✎ If **Voice Control** function is set to **On**, the TV may be turned on automatically by effect of the ambient environment.

1. Speak the **Trigger Words** that you selected into the microphone embedded in the TV or press the VOICE button on your remote. The TV displays the **Voice Command Bar Size**.

   ✎ When you use the **Voice Control**, the volume is set to 5 automatically.
2. Say a word or phrase listed in the **Voice Command Bar Size**.

   ✎ Pronounce the word or phrase clearly and correctly in the language you selected in **Language**.
3. Wait until recognition is complete, and then say the next command in the same fashion

   ✎ To exit the **Voice Control** mode, speak the **Trigger Words** or "Cancel" using the TV's microphone, or press the RETURN button.

Using the Voice Text Input Mode

1. Say "Search All" while in the **Voice Control** mode.

   ✎ When you use a **QWERTY** keypad screen, you can use the Voice Text Input Mode. Say the **Trigger Words** that you selected into the microphone embedded in the TV or press the VOICE button on your remote. You cannot use it for some UIs such as URL input boxes.
2. Say the word or phrase you wish to search for.
3. The TV executes the spoken function.

✎ Voice Control performance levels will vary based on the language spoken.

Motion Control

Menu → System → Voice and Motion Control → Motion Control

Enable or disable the **Motion Control** function. Lets you control your TV by moving the TV cursor using specific motions.

✎ **Motion Control** function can be affected recognition by motion posture, or ambient brightness conditions.

✎ Some applications may not support **Motion Control**.

✎ You may experience physical fatigue when you use the **Motion Control** for a long time.

✎ To use the **Motion Control**, please avoid direct sunlight.

✎ We are recommended using **Motion Control** function within about 5 - 13 ft with your TV. TV Camera's recognition range may differ depending on the angle of camera or other conditions. You can check the recognition range of TV camera by using **Motion Control Environment Test** (**System → Voice and Motion Control → Motion Control → Motion Control Environment Test**).

■ **Motion Control**

Turns the **Motion Control** function on or off.

■ **Motion Guide Bar Size**

Set the **Motion Guide Bar Size** mode between **Minimum** or **Full**.

■ **Motion Control Environment Test**

You can test the brightness of room and the camera angle.

– **Brightness Test**: This test checks to see if your room is bright enough for **Motion Control** to work properly. Select **Start** using your remote. The test will starts and should take only a few seconds. (Appropriate ambient brightness: 50 ~ 500 Lux)

✎ Do not illuminating a sunlight or lights directly into the camera lens.

✎ Make sure that the camera lens is cloaked by an object.

– **Camera Angle Test**: On the **Camera Angle Test** screen, select **Start** using your remote. A rectangle appears on the screen. Move yourself into the rectangle by adjusting the camera or moving yourself in front of the camera. If you are not within the rectangle position, the test may not work properly. After aligning your body with the TV, raise your hand while opening it toward the screen, hold it for a moment and then wave it 3~4 times to the left and right.

To use the Motion Control function, follow these steps:

1. You use the **Motion Control**, raise your hand unfolding it toward the screen, hold it for a moment and then wave it 3~4 time to the left and right. **Motion Control** starts. If the **Motion Control** starts, the cursor is displayed at the center of the screen and the **Motion Guide Bar Size** is at the bottom of the screen.
2. Control the TV using your hands.

✎ Note that the **Motion Control** function closes if your hands go out of the camera range.

✎ While using the **Motion Control**, if you use the other devices (i.e. remote control, keyboard, etc.), **Motion Control** closes.

Controlling the TV with your hands using motions

■ **Access Motion Control**

– **Action**: Spread your hand in the direction of the camera, and shake it three or four times from a side to side.

■ **Pointing Navigation**

Moves the cursor to the position you want.

– **Action**: Spread your hand and guide the cursor to position you want.

■ **Run**

Selects an item or executes a command that is indicated by the cursor or is highlighted.

– **Action**: Clench your fist.

✎ When you watch some page or some image, you can move the page or image to direction you want if it can be moved. In this case, use and keep the **Run** motion, and then move it to direction you want. To move a page, clench your fist, keep it clenched, and then move it in the direction you want the page to move. Note that not all pages can be moved.

■ **Return**

Return to the previous menu.

– **Action**: Spread your hand and rotate it counterclockwise.

■ **Channel / Volume Control**

Changes the channel or adjust the volume.

✎ If you use the **Motion Control** function while watching a channel, the channel / volume control screen appears.

– **Action**: Use the **Pointing Navigation** motion to move the cursor to the channel or volume controller, and then uses the **Run** motion to adjust the channel or volume.

✎ If you use the **Run** motion once, it has the same effect as pressing a button on your remote. If you hold the **Run** motion, it has the same effect as pressing and holding a button on your remote.

■ **Scroll**

Scroll the page in the direction you want. For example, suppose that you want to scroll down.

✎ Some applications may not support this function.

1. Move the cursor to the bottom of the screen (page scroll zone) using the **Pointing Navigation** motion.
2. Move the cursor to the center of the screen using the **Pointing Navigation** motion.
3. The page will move down.

Face recognition

→ **Tools** → **Settings** → **Account Manager** → **Face recognition**

Enable or disable the Face recognition function. Face recognition lets you register your face with your Samsung account. Also, you can log in to the Samsung account using the **Face recognition** function without inputting your account ID or your account password.

✎ You can register your face in only one account.

To register your face in your Samsung account, follow these steps:

✎ To use this function, you must log into **Smart Hub**. If you don't have a **Samsung Account**, you should create one before using this function. To create your **Samsung Account**, refer to “Creating an Account” (Advanced Features → Smart Hub) in the e-Manual.

1. On the **Smart Hub** screen, open the **Tools** menu using your remote, and then select **Settings**.
2. Select **Account Manager**. The **Account Manager** screen appears.
3. Select **Face recognition**. The **Face recognition** screen appears.
4. Move your face into the square in the center of the screen, and then wait until the square changes from red to green.

   ✎ If **Face recognition** fails, select **Retry** and then try again.
5. When done, your face is now registered in your Samsung account. The Continue to Register Service window appears.

   ✎ To close the window, select **OK**. You can register services later using **Link to other accounts** in the **Smart Hub** menu (**Settings** → **Account Manager** → **Link to other accounts**).

To log in to your Samsung account using Face recognition, follow these steps:

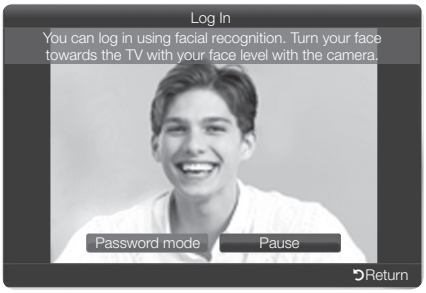
✎ If you use **Face recognition** to log into **Smart Hub**, it may be less secure than logging in with a password.

1. With the **Smart Hub** screen displayed, select A using your remote. The **Samsung Account** screen appears.

Log In
What is Samsung Account? A Samsung Account is an integrated membership account that lets you access all the services provided by Samsung through a single registered account.
Samsung Account
Press [Enter]
Password
Press [Enter]
Remember my password
Sign me in automatically
Log In
Cancel
Facial Recognition Mode
Create Account
Return

2. Select **Face Recognition Mode**. The **Face recognition** screen appears.

   ✎ To return to the **Samsung Account** screen, select **Password mode**.


Log In
You can log in using facial recognition. Turn your face towards the TV with your face level with the camera.
Password mode
Pause
Return

3. The TV starts **Face recognition**. Face the front of the TV screen. The TV will recognize your face automatically.

   ✎ A Green square indicates a registered face. A red-square indicates an unregistered face.

   ✎ If the TV fails to recognize your face, try again.

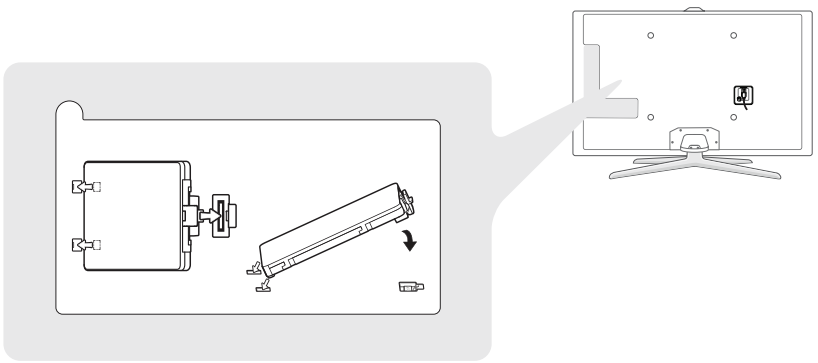
4. The TV logs you into your Samsung account automatically.

   ✎ If the TV recognizes two or more registered faces, the Samsung account list appears. Select your account to log in.

   ✎ If your face is unregistered, you can register your face in your Samsung account. Follow steps 4 through 5 in the “To register your face to your Samsung account:” procedure above.

   ✎ If you have no account, you can create one. For more detailed information, refer to “Creating an Account” (Advanced Features → Smart Hub) in the e-Manual.

The Evolution Kit Slot (Kit Sold Separately)



This socket is designed to accept an extension device called the Evolution Kit. The Evolution Kit enables the TV to run a variety of the latest applications for a better user experience.

The Evolution Kit, which may not be available depending on the product, will be sold separately in 2013 or later.

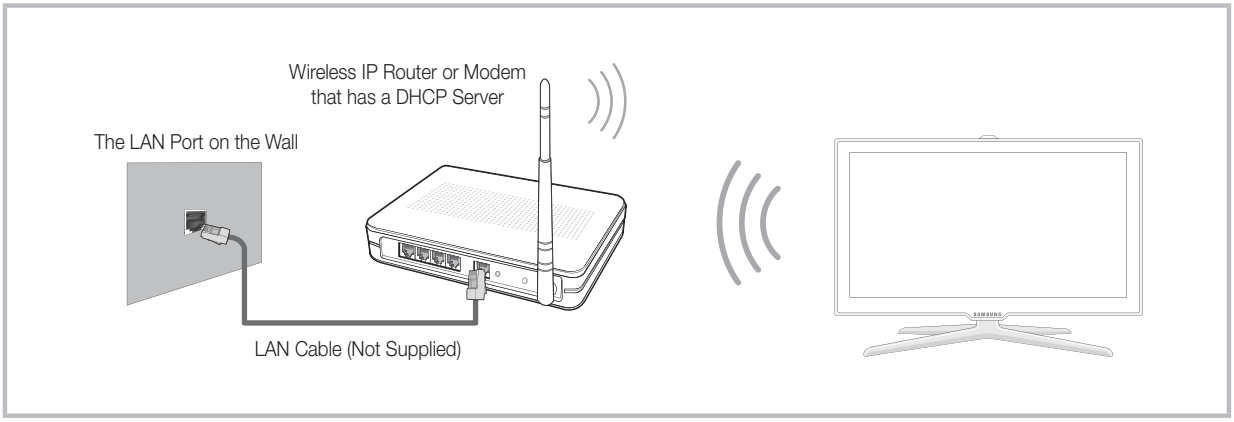
Connecting to a Network

You can set up your TV so that it can access SMART TV applications through your local area network (LAN) using a wired or wireless connection.

✎ After you have “physically” connected your TV to your network, you must configure the network connection to complete the process. You can configure the connection during the Initial Setup process (see page 17) or after the Initial Setup process, through the TV’s menu (see page 37).

Network Connection - Wireless

You can connect your TV to your local area network (LAN) through a standard wireless router or modem.



This TV supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. If you play video using IEEE 802.11a, b, or g, the video may not play smoothly.

Most wireless network systems incorporate a security system that requires devices that access the network through an access point or AP (typically a wireless router or modem) to transmit an encrypted security code called an access key.

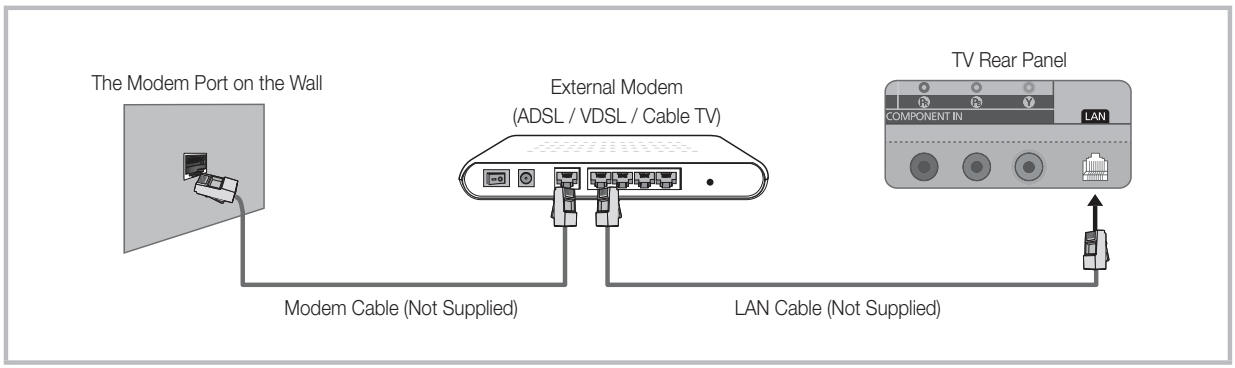
Your TV is compatible with the following security protocols:

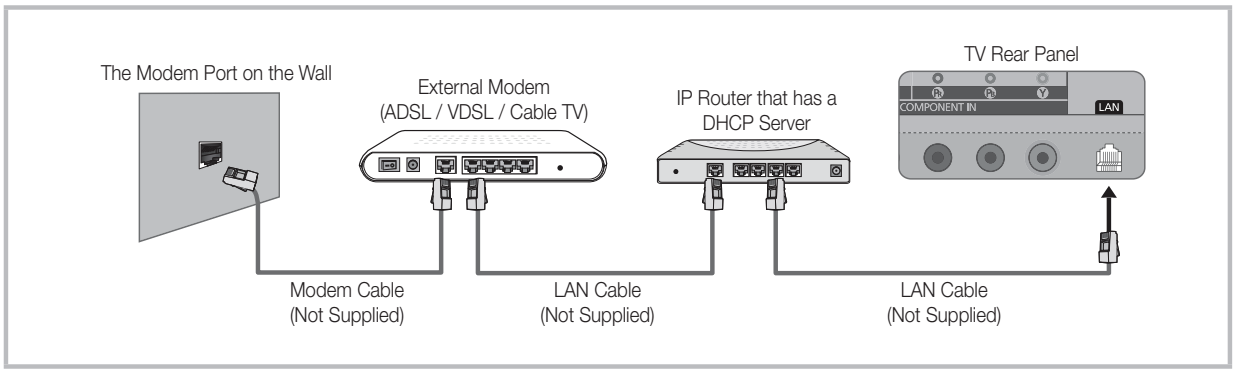
- Authentication Mode: OPEN, SHARED, WPAPSK, WPA2PSK
- Encryption Type: WEP, TKIP, AES

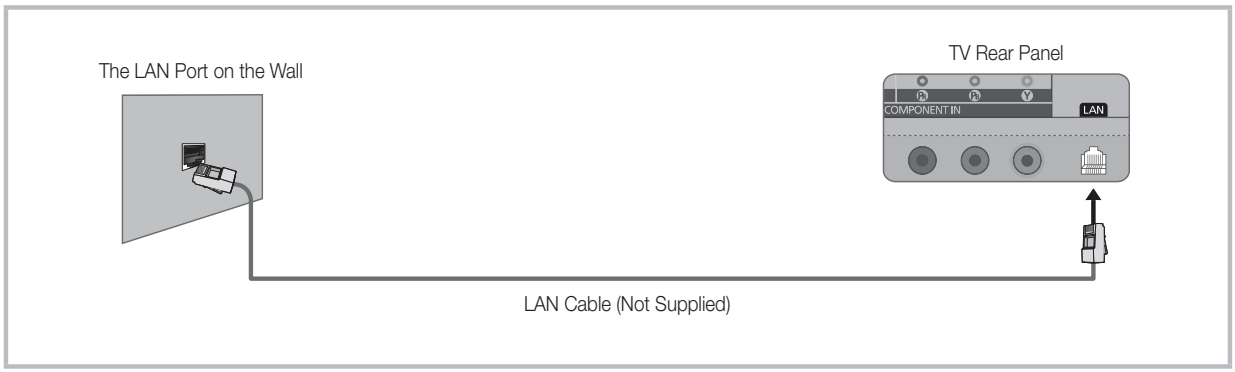
If you select Pure High-throughput (Greenfield) 802.11n mode and the Encryption type is set to WEP or TKIP on your AP or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

Network Connection - Wired

There are three main ways to connect your TV to your network using cable, depending on your network setup. They are illustrated starting below:







✎ The TV does not support network speeds less than or equal to 10Mbps.

✎ Use Cat 5 or 6 (STP Type*) cable for the connection. (*Shielded Twisted Pair)

Configuring Network Connections

After you have run the initial setup, you can configure or reconfigure the network connections through the TV's menu.

Configuring a Wireless Network Connection

The instructions below are for networks that use the Dynamic Host Configuration Protocol (DHCP) to configure network connections automatically. Most wireless networks use DHCP. If you have a Static IP network, see the e-Manual for configuration instructions.

To configure the network connection for a network that uses DHCP, follow these steps:

1. Connect your TV to your network as shown in the illustration on page 35.
2. Turn on your TV, and then go to the **Network Settings** screen. (**Menu** → **Network** → **Network Settings**)
3. Select **Start**. The Network function searches for available wireless networks. When done, it displays a list of the available networks.
4. In the list of networks, move the highlight to select a network, and then select **Next**.
   ✎ If you have a WPS(PBC) compatible router, select **WPS(PBC)** instead, and then follow the directions on the screen.
5. Enter your network security key or WPS PIN using your remote.
   ✎ Enter numbers and letters using your remote.
   - If you are using the standard remote, you can enter numbers by pressing the number buttons on your remote.
   - To enter a letter, move the Highlight to the letter, and then select it. You can enter numbers in the same fashion if you choose.

   ✎ To display capital letters (or redisplay small letters if capital letters are displayed), select **Caps** or **Shift**.
   ✎ To display symbols and punctuation, select ★. To redisplay letters, select ★ again.
6. When done, select **Next** if you have entered a security key or **WPS PIN** if you have entered a WPS PIN.
7. The TV checks the wireless connection. If the connection is successful, the "**You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider.**" message appears. Select **Next** using your remote.
   ✎ For more detailed information, see "Setting up the Wireless Network" in the e-Manual.
   ✎ If you want to configure the connection manually, select **IP Settings** on the Network Connection screen. Set **IP Mode** to **Manual**, and then enter the **IP Address**, **Subnet Mask**, **Gateway**, and **DNS Server** manually.

Configuring a Wired Network Connection

Most home networks use the Dynamic Host Configuration Protocol (DHCP) to configure network connections. Home networks that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you don't have to enter them manually. If you have a Static IP network, see your user's manual for configuration instructions.

To configure the network connection for a wired network that uses DHCP, follow these steps:

1. Connect your TV to your network as shown in one of the illustrations on page 36.
2. Turn on your TV, and then go to the **Network Settings** screen. (**Menu** → **Network** → **Network Settings**)
3. Select **Start**.
4. The Network Connection screen appears, and verifies the network connection. When the connection has been verified, the "**You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider.**" message appears. Network set up is completed.

✎ If your TV cannot acquire network the connection values automatically or if you want to set the connection manually, select **IP Settings** on the network connection screen. Set **IP Mode** to **Manual**, and then enter the **IP Address, Subnet Mask**, **Gateway**, and **DNS Server** manually.

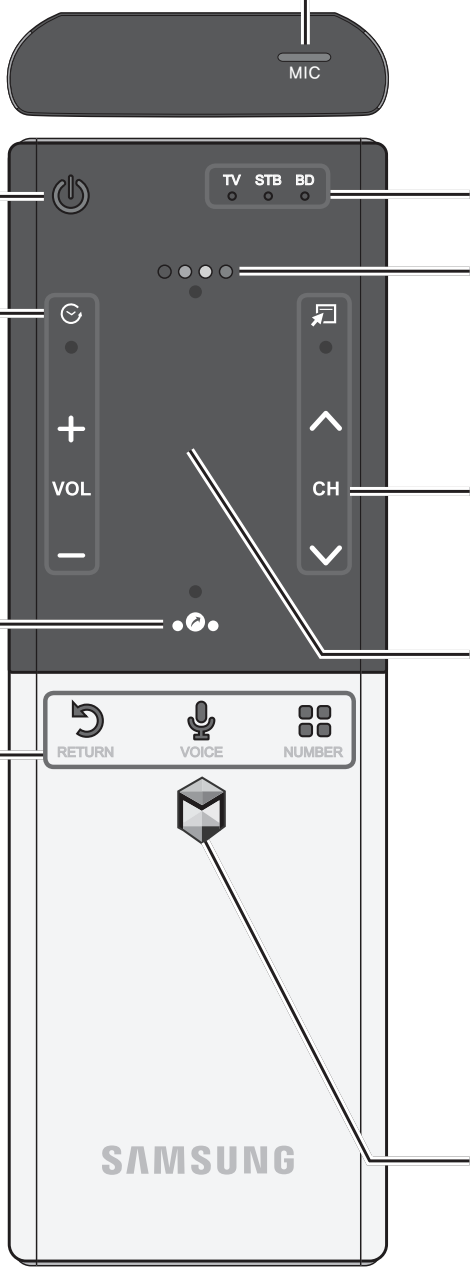
✎ For more detailed information, refer to "Setting up the Wired Network" in the e-Manual.

The Smart Touch Control

Improved user convenience has been provided so that you can switch the channel and adjust the volume with just your fingertips while focusing on the TV screen. In addition, the built-in touch pad removes the need for a mouse when you change the menu settings and search for something on the Internet.

✎ For more detailed information about Smart Touch Control, see "Using the Smart Touch Control" in e-Manual.

Smart Touch Control



You can speak a voice command that displayed to the TV using MIC. To use MIC, press the **VOICE** button on your remote.

✎ **Voice Control** function can be affected recognition by unclear pronunciation, voice level, or surrounding noise.

Turns the TV on and off.

LED to show the active device.

Displays color and playing control functions. You can select a function using the Touch Pad.

: Displays a list of recently used functions. You can select a function again using the Touch Pad easily and quickly.

– VOL +: Adjusts the Volume.

: Quickly select frequently used functions. Use this button in a specific feature. For details, refer to e-Manual.

CH: Changes channels.

Displays the shortcut functions list. You can select a function using the Touch Pad.

Touch Pad

- Drag on the touch pad to move the focus on the screen.
- Click on the touch pad to run the focused item.
- If you don't press any button within 30 seconds, the Smart Touch Control is set to Sleep mode automatically. To wake up the Smart Touch Control, press the Touch Pad.
- If you press and hold the Touch Pad, it has the same effect as pressing the **MUTE** button on your remote. However, this action scrolls the page on a **Web Browser**.
- Tap on the touch pad or press the **RETURN** button to return to the normal state.

RETURN: Returns to the previous menu.

VOICE: Lets you access the **Voice Control** function. When you press the button, the TV displays the command list. You can speak using the microphone embedded in your remote.

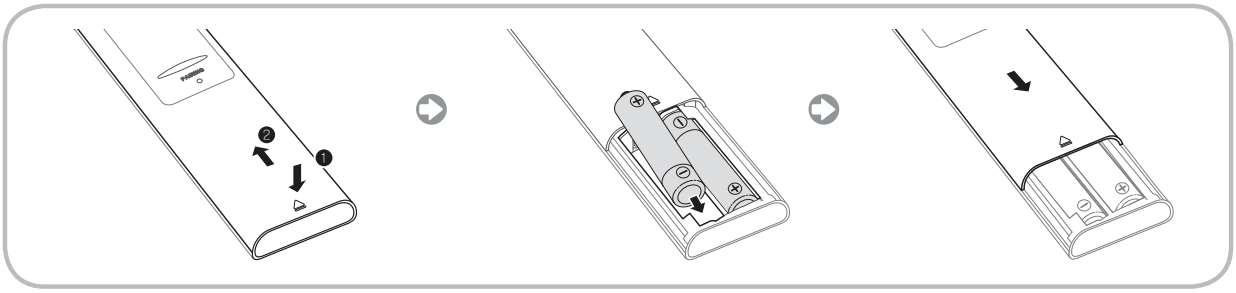
✎ For more detailed information about the **Voice Control** function, see "SMART Interaction" in the e-manual or see page 27.

NUMBER: Displays the Number button screen. You can select a number using the Touch Pad.

Brings up the Smart Hub applications. See the e-Manual chapter Advanced Features → Smart Hub.

✎ To exit an application that is running easily, press the button.

Installing batteries (Battery size : AA)



1. Press the back of the remote at the very bottom with both thumbs, and then slide the battery cover up in the direction of the arrow.
2. Install two batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
3. Slide the cover down in the direction of the arrow to close the battery cover.

Initial Pairing for Smart Touch Control

After you have run the Initial Setup on your TV, you should connect your Smart Touch Control to your TV.

1. Point the Smart Touch remote control toward the TV's IR Blaster and press any key on the Smart Touch remote control.
2. The connection icon appears at the bottom left of the screen and the Smart Touch remote control is automatically connected to the TV.

✎ If you want to perform the pairing process again, press the reset button in the center of the back cover using a pin or the tip of an unbent paper clip. The Smart Touch Control will be initialized.

- Smart Touch Control **PAIRING** Reset button.

Calibrating the Touch Pad

To calibrate the touch pad on the Smart Touch Control, follow these steps:

1. Press the **NUMBER** button for 3 seconds. The calibration starts.
2. When done, all the LEDs on the top of the Smart Touch Control blink twice simultaneously.

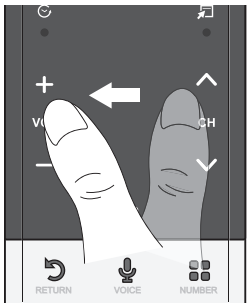
✎ While calibrating, don't touch the touch pad.

✎ If the touch pad looses accuracy, re-calibrate the touch pad by repeating Steps 1 and 2.

Using the Touch Pad

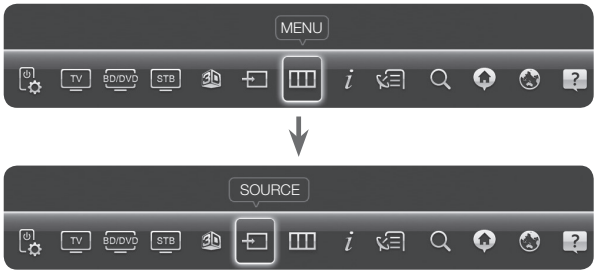
To display the shortcut functions list on the bottom of the screen, press the button at the bottom of the touch pad. This list includes **Menu**, **Source**, **Ch List**, **3D**, **Support**, and a number of other functions.

To display the color and playing control functions on the top of the screen, press the button on the top of the touch pad.

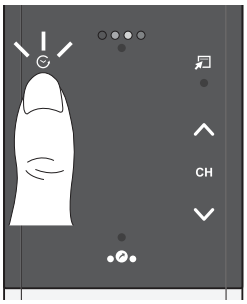


To Move the Highlight: Rest your finger on the touch pad, and then slide it from one side to the other, from top to bottom, or bottom to top.

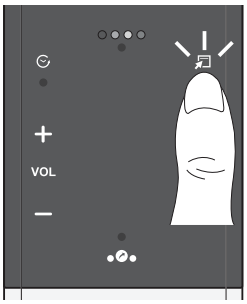
✎ To move the Highlight continuously, flick your finger across the touch pad from right to left, left to right, top to bottom, or bottom to top.



To Select an item: Press the Touch Pad.



Open the History screen.: Press the button in the left of the Touch Pad. Displays a list of recently used functions. You can select a function again using the Touch Pad easily and quickly.



Open the Tools menu.: Press the button in the right of the Touch Pad. Quickly select frequently used functions.

Open the color, playing control and exit buttons.: To display the color, exit and play control buttons at the top of the screen, press the button at the ●●●● top of the touch pad.

: Close all menus shown on the screen.

Open the shortcut functions screen.: Press the ●●● button in the bottom center of the Touch Pad.
Quickly select frequently used functions:

Using the Scroll mode

If you press and hold the Touch Pad when using **Web Browser**, the Touch Pad switches to the Scroll mode.

In the Scroll mode, slide your finger in the Touch Pad from one side to the other, the highlight moves page units.

✎ To return to the general mode of the Touch Pad, press the Touch Pad or **RETURN** button on your Smart Touch Control.

To Enter a channel number through Smart Touch Control

1. While watching a broadcast, press the **NUMBER** button on the Smart Touch Control. The TV displays the number button screen.
2. Using the touch pad, highlight a number, and then press the touch pad. The TV displays a list of channels that start with the number you selected.
3. Using the touch pad, highlight the channel in the list you want, and then press the touch pad.

✎ You can also change the channel by touching the up or down channel icon on the touch pad. If you touch the touch pad immediately after, the TV displays the list of memorized channels. Select a channel by moving or flicking your finger up or down, and then pressing the touch pad.

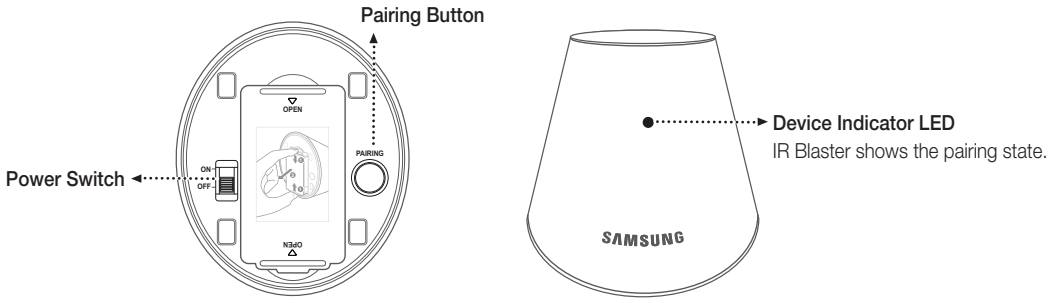
✎ If you change a channel by entering the channel number, that channel number is memorized and added to the **Added Ch.** list automatically. You can change channels using the memorized channel list easily and quickly.

The IR Blaster

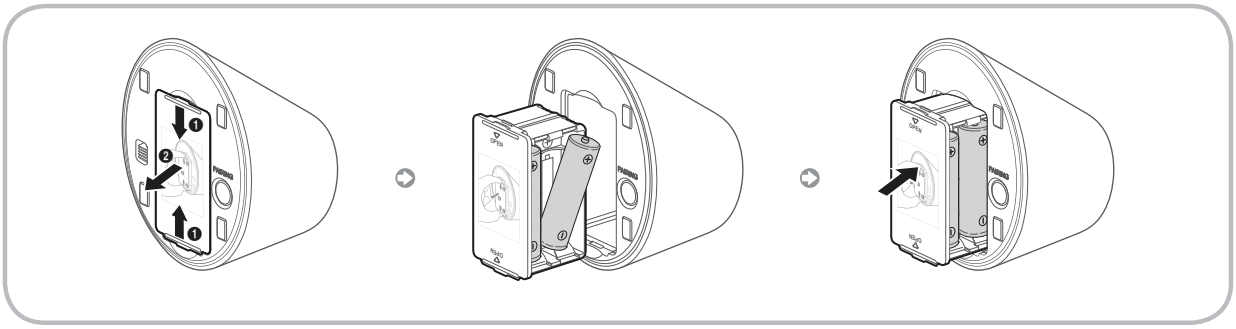
When you connect an IR Blaster with your TV, you can control connected external devices with your TV using the Smart Touch Control.

✎ Install the IR Blaster within 50 cm and 45 degrees of the up, down, left and right directions of the IR sensor of the external device.

IR Blaster



Installing batteries (Battery size : AA)

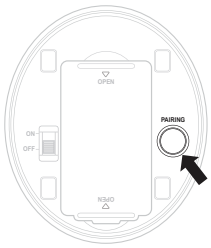


1. Hold the both sides of the battery holder and pull it out.
2. Install four batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
3. Push it back.

IR Blaster Pairing

1. Turn the IR Blaster on, and if the LED blinks, connect the IR Blaster to the TV.
2. Briefly point the IR Blaster toward the IR sensor of the TV and press the **PAIRING** button at the bottom.
3. The connection icons appear on the bottom left of the screen, and the TV connects to IR Blaster automatically.

✎ If the connection process failed, please turn off and on the IR Blaster, try again from step 2.



- IR Blaster **PAIRING** Reset button.

Precautions for Using an IR Blaster

To use an IR Blaster, the IR Blaster must be located nearby with external devices connected to the TV. Note that it should be no obstacle between the external device's IR receiver and an IR Blaster.

Setting up the Universal Remote Control

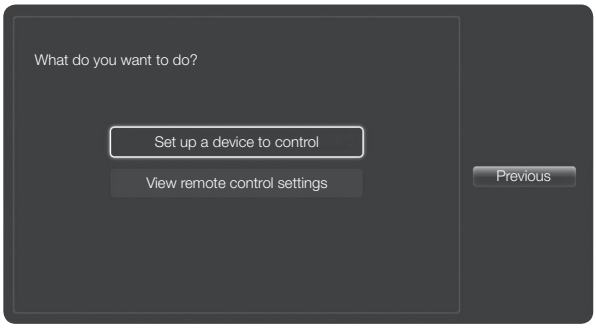
Lets you control a Set-Top-Box (STB) or a BD player or both connected to the TV using your Smart Touch Control. After you connect the device to the TV, the Smart Touch Control can control the navigation, number, and other keys needed to operate and control the device.

To connect the external device to your Smart Touch Control, follow these steps:

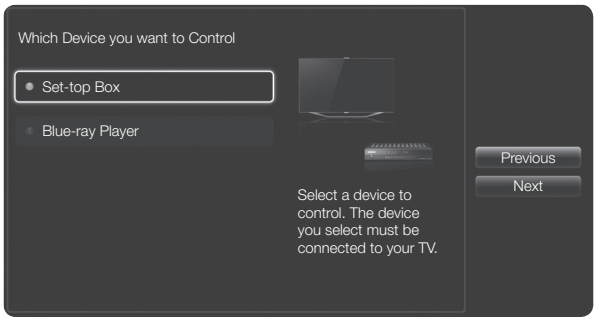
1. When you connect IR Blaster for the first time, a pop-up appears. Select **Yes** to set IR Blaster and Smart Touch Control, and then press the touch pad.

2. To reset IR Blaster and Smart Touch Control, press the button on Smart Touch Control, and then select **Set Up Universal Remote**.

3. Select **Set up a device to control**, and then press the Touch Pad.

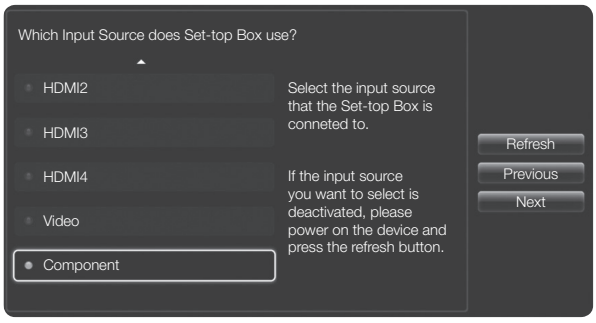


4. Select an external device from the connected devices, and then press the Touch Pad.


Which Device you want to Control
Set-top Box
Blue-ray Player
Select a device to control. The device you select must be connected to your TV.
Previous
Next

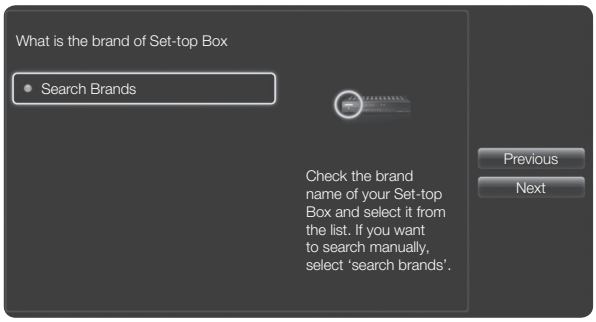
5. Select the port used to connect the external device, and then press the Touch Pad.

   ✎ Make sure that the selected device is on. If it is turned off, turn the power on and press **Refresh**.


Which Input Source does Set-top Box use?
HDMI2
HDMI3
HDMI4
Video
Component
Select the input source that the Set-top Box is conneted to.
If the input source you want to select is deactivated, please power on the device and press the refresh button.
Refresh
Previous
Next

6. Select **Search Brands**, and then press the Touch Pad. A keyboard and an entry field appear. Enter the first few letters of the brand name of your device using the Smart Touch Control, and then select **Done** at the bottom of the keyboard. In the list that appears below the entry field, select the brand name of your device, and then press the Touch Pad.

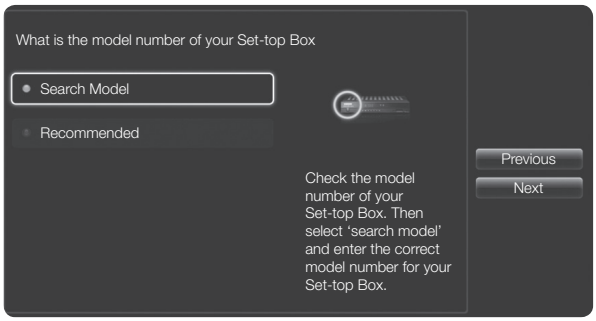
   ✎ If you want to search the brand of STB (Set-Top box), you can search the STB by using the brand name or a cable provider.


What is the brand of Set-top Box
Search Brands
Check the brand name of your Set-top Box and select it from the list. If you want to search manually, select 'search brands'.
Previous
Next

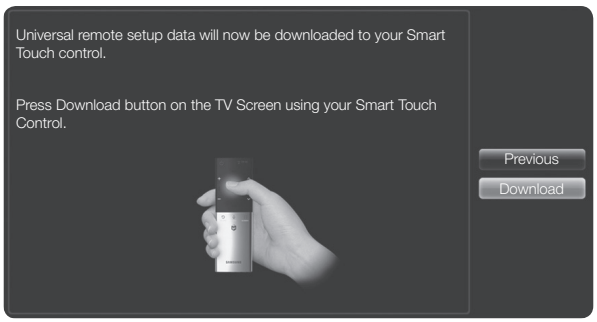
7. Select **Search Model**, and then press the Touch Pad. A keyboard and an entry field appear. Enter the first few letters and numbers of the model name of your device using the Touch Control, and then select **Done** at the bottom of the keyboard. In the list that appears below the entry field, select the model name of your device, and then press the Touch Pad.

   ✎ If the search for model name does not work properly, search with a part of the model name or use the Search for recommended model code.

   ✎ For more information on the Search for recommended model code function, refer to page 47.


What is the model number of your Set-top Box
Search Model
Recommended
Check the model number of your Set-top Box. Then select 'search model' and enter the correct model number for your Set-top Box.
Previous
Next

8. Select **Download**, and then press the Touch Pad. Download the configuration data for the IR Blaster in the same way.

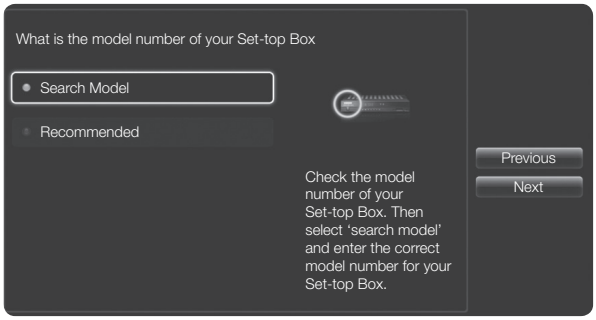

Universal remote setup data will now be downloaded to your Smart Touch control.
Press Download button on the TV Screen using your Smart Touch Control.
Previous
Download

9. When all the settings are complete, select the **Done** button and press the touch pad.

Universal remote setup complete
Congratulation! Your Set-top Box-Samsung connected on Component is now ready.
Now, you can set your remote to Watch Set-top Box mode to control your Set-top Box
Previous
Set up another
Complete

Using the Search for Recommended Model Code

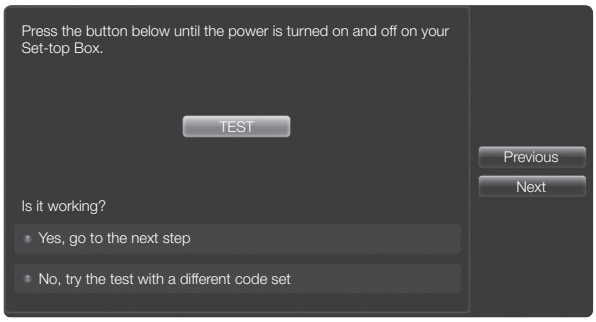
1. In the Search for model name step in the integrated remote control setup, select the **Recommended** and press the touch pad.


What is the model number of your Set-top Box
Search Model
Recommended
Check the model number of your Set-top Box. Then select 'search model' and enter the correct model number for your Set-top Box.
Previous
Next

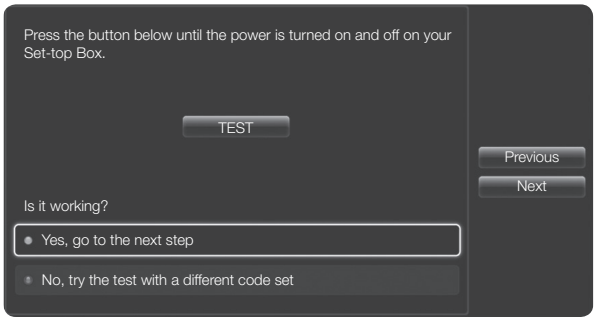
2. Select **Download** to download the recommended model code.

Universal remote setup data will now be downloaded to your Smart Touch control.
Press Download button on the TV Screen using your Smart Touch Control.
Previous
Download

3. Point the Smart touch remote control forward to the TV's IR sensor and press the touch pad to test if the device works.


Press the button below until the power is turned on and off on your Set-top Box.
TEST
Is it working?
Yes, go to the next step
No, try the test with a different code set
Previous
Next

4. If the downloaded recommended model code does not work, repeat the steps from step 3.


Press the button below until the power is turned on and off on your Set-top Box.
TEST
Is it working?
Yes, go to the next step
No, try the test with a different code set
Previous
Next

✎ When you use the BD home theater by using Universal Remote, some buttons may not be supported. In this case, we recommend to use **Anynet+ (HDMI-CEC)** function.

How to view the e-Manual

You can find instructions for your TV's features in the e-Manual. To open the e-Manual, press the SUPPORT button on your standard remote or select **Support** using the Smart Touch Control.

You can also access it through the menu:

Menu → Support → e-Manual

Access the e-Manual

To use the e-Manual, follow these steps:

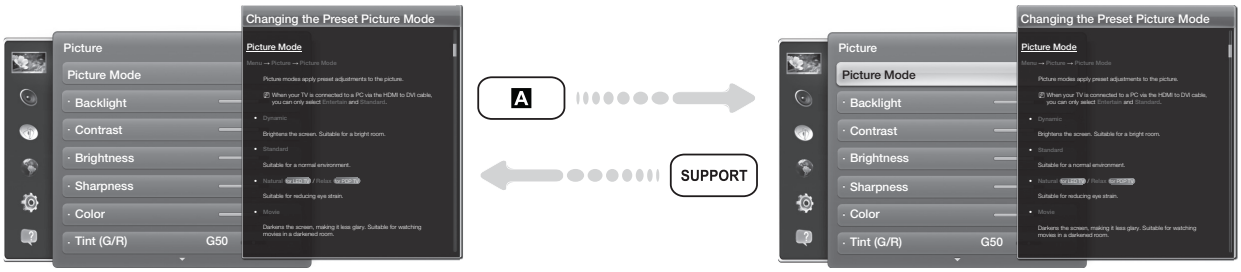
1. When you need help, select **Support** using your remote. The **Support** screen appears.
2. Select **e-Manual** using your remote. The **e-Manual** screen appears.
3. Select a desired category.
4. Select a desired topic. The e-Manual displays the page you want to see.

✎ Blue words in e-Manual signify menu options or selections on TV screen.

✎ Green icons in the e-Manual signify a button on your remote.

✎ Arrow steps (e.g. **Menu → Support → e-Manual**) in the e-Manual signify the sequence of steps required to access an option or activate a function.

How to toggle between an e-Manual topic and the corresponding OSD menu(s).



✎ This function is not enabled in some menus.

✎ You can't use the **Try Now** function if the menu is not available.

1. To go to the topic's corresponding menu option, select A using your remote.
2. To return to the e-Manual screen, select **Support** using your remote.

Using the colored and function buttons with the e-Manual

- **Scroll bar**: Scroll the e-Manual screen up or down.
- ◀ / ▶: Moves to the previous or next chapter.
- **A Try Now**: Move to the OSD menu that corresponds to the topic. To return to the e-Manual screen, select **Support** using your remote.
- **B Home**: Moves to the e-Manual home screen.
- **C Position**: Each time you select **C**, you change the position of the e-Manual screen.
- **D Index**: Displays the Index screen.
- **↩ Return**: Return to the previous screen.

How to search for a topic on the index page

1. Select **D** using your remote. The Index screen appears.
2. To search for a topic, select a letter. The Index displays a list of topics and keywords that begin with the letter you selected.
3. Select a topic or keyword you want.
4. The e-Manual page with the topic appears.

   ✎ To close the **Index** screen, press the RETURN↩ button.

To Change the screen position of the e-Manual

If the e-Manual screen is not invisible well because the OSD Menus screen, you can change the e-Manual screen's position.

1. Move the Highlight to the e-Manual screen by pressing the SUPPORT button on your standard remote or select **Support** using the Smart Touch Control.
2. Press the C button on your standard remote, or select **C** using the Smart Touch Control. Each time you select **C**, the position of the e-Manual will change.

Troubleshooting

If the TV seems to have a problem, first review this list of possible problems and solution. Also review the Troubleshooting Section in the e-Manual. If none of the troubleshooting tips apply, visit www.samsung.com/support or call Samsung Customer Service at 1-800-SAMSUNG (1-800-726-7864).

Issues	Solutions and Explanations
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features such as the **Eco Sensor** or the **Energy Saving** feature. Follow the steps below with your remote to turn these features off or on. • **Energy Saving**: **User Menu → System → Eco Solution → Energy Saving** • **Eco Sensor**: **User Menu → System → Eco Solution → Eco Sensor**
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a **Self Diagnosis** on the TV to make sure there are no device issues. • **Self Diagnosis**: **User Menu → Support → Self Diagnosis → Picture Test** If the problem does not appear in the Picture test, make sure: • Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source. • You have connected your devices to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, and the yellow Y jack on the source to the yellow Y jack on the TV.
Screen Brightness	If you find that the colors on your Samsung TV are correct but just a little too dark or bright, try adjusting the following settings in the Picture menu option of the Main menu: • **Backlight**, **Contrast**, **Brightness**, **Sharpness**, **Color**, **Tint (G/R)** and so on.
Blur	If you find that there is a blur or "ghostlike" appearance to the images on your television's screen, you might be able to correct the blurring using **Auto Motion Plus**. • **Auto Motion Plus**: **User Menu → Picture → Picture Options → Auto Motion Plus**

Issues	Solutions and Explanations
Unwanted Powering Off	If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly **No Signal Power Off** feature. First make sure **Sleep Timer** is not accidentally set. The Sleep Timer turns off the TV automatically after a certain period of time has passed. • **Sleep Timer**: **User Menu → System → Time → Sleep Timer** If the Sleep Timer is not activated, you may have engaged the **No Signal Power Off** or **Auto Power Off** feature. • **No Signal Power Off**: **User Menu → System → Eco Solution → No Signal Power Off** • **Auto Power Off**: **User Menu → System → Eco Solution → Auto Power Off**
Trouble Powering On	**Press the Power on button on the TV or remote. The light should blink about 5 times before the TV turns on.** If you find that you are having trouble powering on your Samsung television, there are a number of things to check before making a call to the service department. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.
Stand Assembly	If you have any trouble assembling the stand first, review "Install the Stand" in the paper manual.
Cannot Find a Channel	Re-run **Setup** (Go to **User Menu → System → Setup**) or run **Auto Program**. (Go to **User Menu → Channel → Auto Program**).

✎ For detailed troubleshooting information, watch the troubleshooting videos at www.samsung.com/spsn.

Issues	Solutions and Explanations
The TV won't turn on.	• Make sure the AC power cord is securely plugged in to the wall outlet and the TV. • Make sure the wall outlet is working. • Try pressing the ⏻ button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "Remote control does not work" below.
There is no picture/video.	• Check the cable connections. Remove and reconnect all cables connected to the TV and external devices. • Set the video outputs of your external devices (Cable/Sat Box, DVD, Blu-ray etc) to match the TV's input connections. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. • Make sure your connected devices are powered on. • Be sure to select the correct input source • Reboot the connected device by unplugging it, and then reconnecting the device's power cable.
The remote control does not work.	• Replace the remote control batteries. Make sure the batteries are installed with their poles (+/–) in the correct direction. • Clean the sensor's transmission window on the remote. • Try pointing the remote directly at the TV from 5~6 feet away.
The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume.	• Program the Cable/Set remote control to operate the TV. Refer to the Cable/Set-Top-Box user manual for the SAMSUNG TV code.

✎ This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. There may be, however, a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

✎ To keep your TV in optimum condition, upgrade to the latest firmware on the Samsung web site by USB (samsung.com → Support → Downloads).

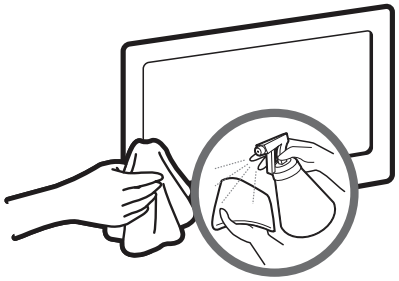
Licenses

Storage and Maintenance

✎ If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean the debris off before watching TV.

✎ The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using the cloth provided or a soft cloth to prevent scratches.

Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.



Clean the product with a soft cloth dampened with a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

Securing the TV to the Wall

Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV. Doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided in the Safety Flyer included with your TV. For added stability and safety, you can purchase and install the anti-fall device as described below.

The TV-Holder Kit (Sold Separately):

The parts below are included in the TV Holder kit. In addition, you need to provide a wood screw, screw and molly, or other screw appropriate for the wall or cabinet you intend to secure the TV-Holder string to. We recommend a size M4xL20 wood screw.

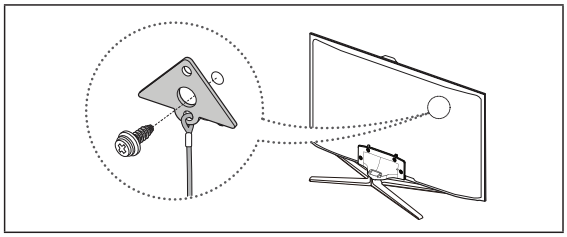
TV-Holder (BN96-15753A)

Screw (M8 X L19)

Installing the TV-Holder

1. Remove the screw attached to the back of your TV, and then connect the TV-Holder to the TV with the screw included in the TV-Holder Kit that is designated for your TV.

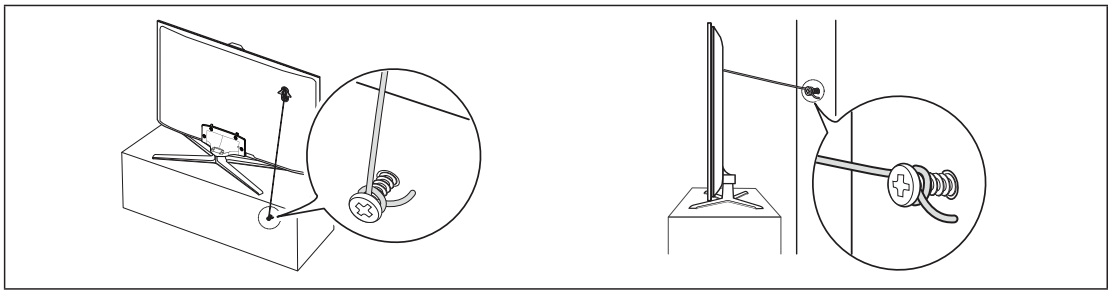
   ✎ Make sure to use only the appropriate supplied screw. If you use a different screw, you can damage your TV.



2. Firmly fasten the screw you provided (size M4xL20 or similar) to the wall or cabinet where the TV is to be installed.

   ✎ If you fasten the screw to the wall, we recommend you drive the screw into a stud. If that is not possible, use a molly to anchor the screw.

3. Tie the TV-Holder cord to the screw fastened to the wall or cabinet so that the TV is fixed. See the illustrations below.
   - ✎ Install the TV close to the wall so that it does not fall.
   - ✎ When attaching the TV-Holder cord to the wall, tie the cord level with the ground or slanted downwards for safety purposes.
   - ✎ Check the cord occasionally to make sure it is secure.
   - ✎ Before moving the TV, separate the connected cord first.



4. Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professional installer.

To purchase the TV-Holder Kit, contact Samsung Customer Care

- In the United States: 1-800-SAMSUNG (1-800-726-7864)
- In Canada: 1-800-SAMSUNG (1-800-726-7864)

Specifications - Smart Touch Control

Model Name		RMCTPE1
Power	Source	Battery (AA x 2)
		To extend the battery life, use of alkaline battery is recommended
Compatibility	LED TV	Above LED E7500
	PDP TV	E8000
Dimension (W x H x D)		2.0 x 6.1 x 0.7 inches (52.0 x 154.0 x 19.5 mm)
Weight	Without Batteries	0.1 lbs (84.0 g)
	Including Batteries	0.2 lbs (130.0 g)

Specifications - IR Blaster

Model Name		VG-IRB2000
Power	Source	Battery (AA x 4)
		To extend the battery life, use of alkaline battery is recommended
Compatibility	LED TV	Above LED E7500
	PDP TV	E8000
Dimension (W x H x D)		3.7 x 2.6 x 3.1 inches (95.0 x 65.0 x 79.0 mm)
Weight	Without Batteries	0.1 lbs (86.5 g)
	Including Batteries	0.3 lbs (178.5 g)

Specifications

Display Resolution	1920 x 1080	
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing	
Stand Swivel (Left / Right)	-20˚ ~ 20˚	
Model Name	UN46ES7500	UN55ES7500
Screen Size (Diagonal)	46˝ Class (45.9˝ measured diagonally)	55˝ Class (54.6˝ measured diagonally)
Sound (Output)	10 W X 2	
Dimensions (W x H x D) Body With stand	 41.2 x 24.4 x 1.1 inches (1046.8 x 620.2 x 29.7 mm) 41.2 x 27.2 x 10.8 inches (1046.8 x 691.2 x 276.7 mm)	 48.7 x 28.6 x 1.1 inches (1238.4 x 728.0 x 29.7 mm) 48.7 x 31.1 x 10.8 inches (1238.4 x 790.4 x 276.7 mm)
Weight Without Stand With Stand	 26.2 lbs (11.9 kg) 30.4 lbs (13.8 kg)	 36.1 lbs (16.4 kg) 40.3 lbs (18.3 kg)
Model Name	UN60ES7500	
Screen Size (Diagonal)	60˝ Class (60.0˝ measured diagonally)	
Sound (Output)	10 W X 2	
Dimensions (W x D x H) Body With stand	 54.1 x 32.0 x 1.2 inches (1376.5 x 814.5 x 31.2 mm) 54.1 x 34.8 x 12.1 inches (1376.5 x 885.7 x 309.8 mm)	
Weight Without Stand With Stand	 45.1 lbs (20.5 kg) 50.7 lbs (23.0 kg)	

✎ Design and specifications are subject to change without prior notice.

✎ The actual appearance of the TV may differ from the images in this manual, depending on the model.

✎ This device is a Class B digital apparatus.

✎ For information about the power supply, and more about power consumption, refer to the label attached to the product.

✎ Typical power consumption is measured according to Energy Star Program requirements for Televisions.

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect or call, (877) 278 - 0799

Display Resolution

If you have attached the TV to your PC, you can select one of the standard resolutions listed in the Resolution column. The TV will automatically adjust to the resolution you choose.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+/-
	720 x 400	31.469	70.087	28.322	-/+
MAC	640 x 480	35.000	66.667	30.240	-/-
	832 x 624	49.726	74.551	57.284	-/-
	1152 x 870	68.681	75.062	100.000	-/-
VESA DMT	640 x 480	31.469	59.940	25.175	-/-
	640 x 480	37.861	72.809	31.500	-/-
	640 x 480	37.500	75.000	31.500	-/-
	800 x 600	37.879	60.317	40.000	+/+
	800 x 600	48.077	72.188	50.000	+/+
	800 x 600	46.875	75.000	49.500	+/+
	1024 x 768	48.363	60.004	65.000	-/-
	1024 x 768	56.476	70.069	75.000	-/-
	1024 x 768	60.023	75.029	78.750	+/+
	1152 x 864	67.500	75.000	108.000	+/+
	1280 x 720	45.000	60.000	74.250	+/+
	1280 x 800	49.702	59.810	83.500	-/+
	1280 x 1024	63.981	60.020	108.000	+/+
	1280 x 1024	79.976	75.025	135.000	+/+
	1366 x 768	47.712	59.790	85.500	+/+
	1440 x 900	55.935	59.887	106.500	-/+
	1600 x 900RB	60.000	60.000	108.000	+/+
	1680 x 1050	65.290	59.954	146.250	-/+
	1920 x 1080	67.500	60.000	148.500	+/+

✎ NOTE

- The interlaced mode is not supported.
- The set might operate abnormally if you select a non-standard video format.

Video Codec

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.m2ts *.mts *.divx	AVI MKV ASF MP4 3GP VRO VOB PS TS	DIVX 3.11/4.x/5.x/6.1	1920 x 1080	6 – 30	30	AC3 LPCM ADMPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core DRA
		MPEG4 SP/ASP				
		H.264 BP/MP/HP				
		Motion JPEG				
		Window Media Video v9				
		MPEG2				
		MPEG1				
		VP6	640 x 480		4	
		SVAF	1920 x 1080		30	
		MVC		24 / 25 / 30	40	
*.webm	WebM	VP8		6 – 30	8	Vorbis

Other Restriction

✎ Video content will not play, or not play correctly, if there is an error in the content or the container.

✎ Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.

✎ If the Index Table is damaged, the Seek (Jump) function is not supported.

✎ When you play video over a network connection, the video may not be played smoothly.

✎ The menu may take longer to appear if the video's bit rate exceeds 10Mbps.

✎ Some USB/digital camera devices may not be compatible with the player.

Video decoder

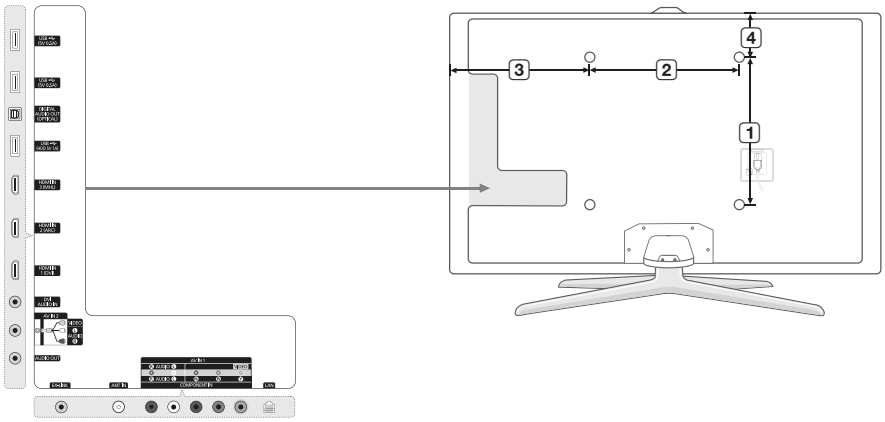
- Supports up to H.264, Level 4.1
- H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.
- For all Video codecs except MVC, VP8, VP6:
  - Below 1280 x 720: 60 frame max
  - Above 1280 x 720: 30 frame max
  - GMC 2 over is not supported.
- Supports only SVAF Top/Bottom and Side by Side.
- Supports only BD MVC Spec.

Audio decoder

- WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported.
- RealAudio 10 lossless is not supported.
- QCELP, AMR NB/WB are not supported.
- If Vorbis is only in Webm container, supports up to 2 channel.

Dimensions

■ Jack panel detail / Rear view



(Unit: inches)

Model name	1	2	3	4
UN46ES7500	15.7	15.7	12.7	3.1
UN55ES7500	15.7	15.7	16.5	6.7
UN60ES7500	15.7	15.7	19.2	8.7

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.

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Voice Sensitivity 28

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme á la norme NMB-003 du Canada.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

SAMSUNG

Contact SAMSUNG WORLDWIDE

If you have any questions or comments about Your Samsung TV, please contact the SAMSUNG customer care center.

Country	Customer Care Center ☎	Web Site	Address
CANADA	1-800-SAMSUNG (726-7864)	www.samsung.com	Samsung Electronics Canada Inc., Customer Service 55 Standish Court Mississauga, Ontario L5R 4B2 Canada
U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660

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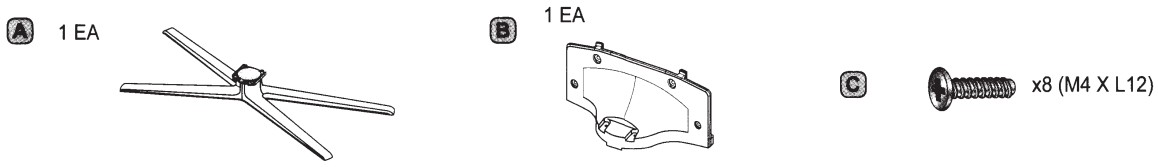
BN68-04032A-03

STOP **Assemble Stand before removing TV from shipping box**

Installing the TV Stand

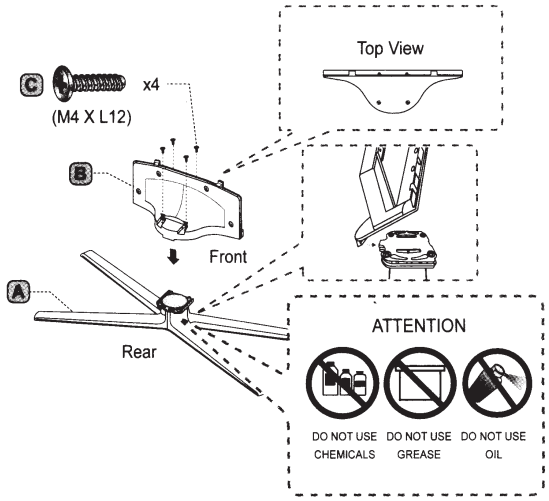
Components

When installing the stand, use the provided components and parts.

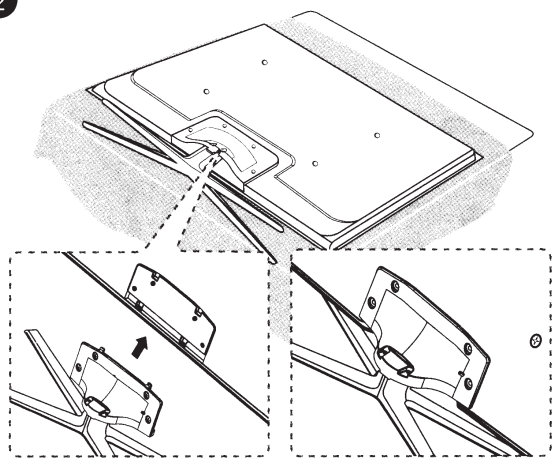


Stand (depending on the model) | Guide Stand | Screws

1



2

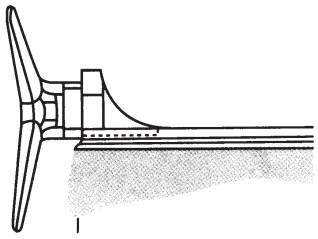


Place a soft cloth over the table to protect the TV, and then place the TV on the cloth screen side down.

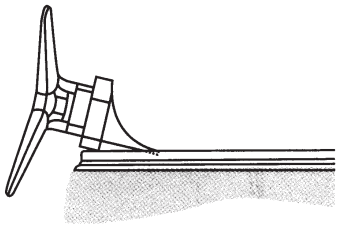
Insert the Stand Guide into the slot of TV bottom side.

3 Side View

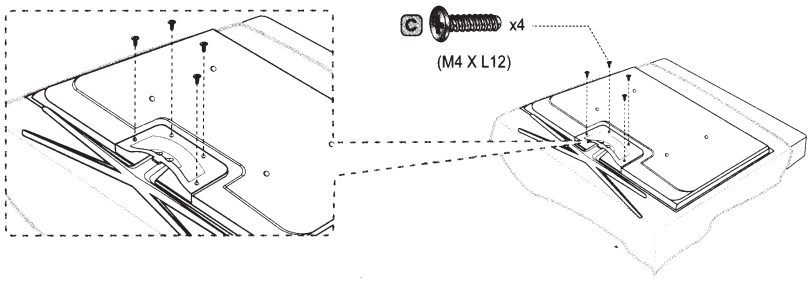
(Correct assembly)



(Incorrect assembly)



4



Caution

- Make sure to distinguish between the front and back of each component when assembling them.
- Make sure that at least two persons lift and move the TV.

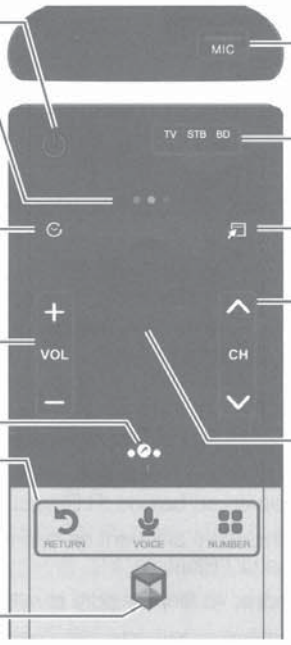
BN68-04186A-00

BN68-04186A-00

The Smart Touch Control / IR Blaster Guide

Before using Smart Touch Control and IR Blaster, it should be paired with TV.
To control the device using the IR Blaster, setup is needed on the universal remote menu.
Please install the IR Blaster on the tea table in front of the TV.

Smart Touch Control (RMCTPE1)



Turns the TV on and off.

Displays color and playing control functions.
●●●●: Use these buttons according to the directions on screen.
Playing control buttons: Use these buttons in a specific feature.

: Displays a list of recently used functions.

– VOL +: Adjusts the Volume.

Displays the shortcut functions list.

RETURN: Go to previous menu screen.

VOICE: Take your voice command and enter a text using your voice.

NUMBER: Displays the Number button screen.

Brings up the Smart Hub applications.

You can speak a voice command that displayed to the TV using **MIC**.

LED to show the active device.

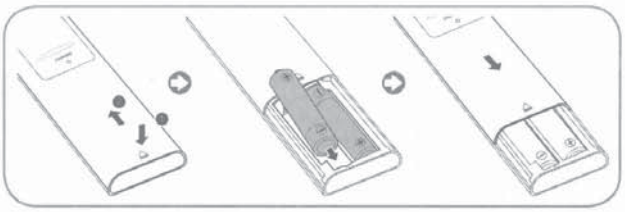
: Quickly select frequently used functions.

CH: Changes channels.

Touch Pad

- If you press the Touch Pad when using Smart Hub, Web Browser, and AllShare Play, the Touch Pad switches to the Scroll mode.
- In the Scroll mode, slide your finger in the Touch Pad from one side to the other, the highlight moves page units.
- To return to the general mode of the Touch Pad, press the Touch Pad or **RETURN** button on your Smart Touch Control.
- If you don't press any button within 30 seconds, the Smart Touch Control is set to sleep mode automatically.
- To wake up the Smart Touch Control, press the Touch Pad.
- If you press the Touch Pad for 2 seconds, it has the same effect as pressing the **MUTE** button on your remote.

Inserting Batteries

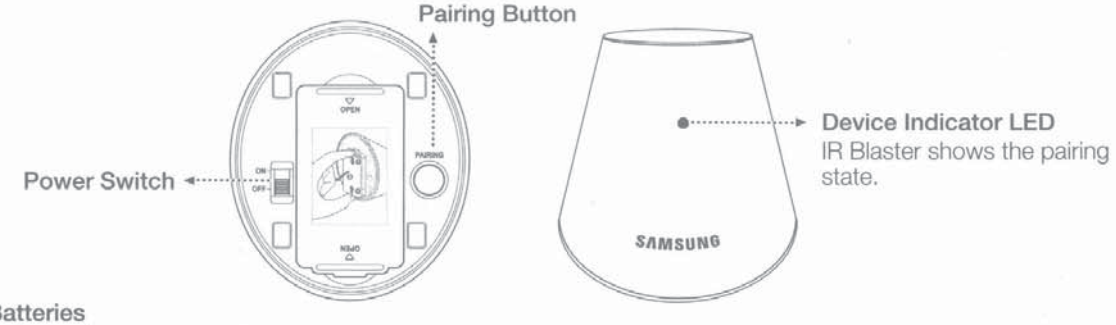


1. Press the back of the remote at the very bottom with both thumbs, and then slide the battery cover up in the direction of the arrow.
2. Insert the 2 AA into the battery compartment.
3. Slide the cover down in the direction of the arrow to close the battery cover.

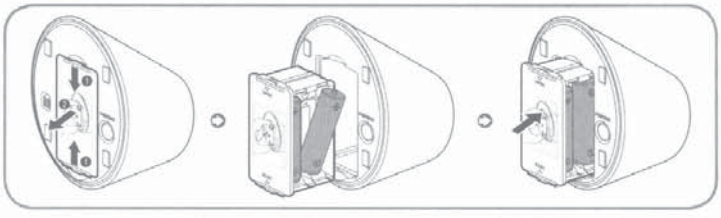
IR Blaster (VG-IRB2000)

To control to external devices connected to your TV, setting up the Universal Remote.

If you adjust the external device to the Smart Touch Control, IR Blaster will send the IR signal to an external device.



Inserting Batteries



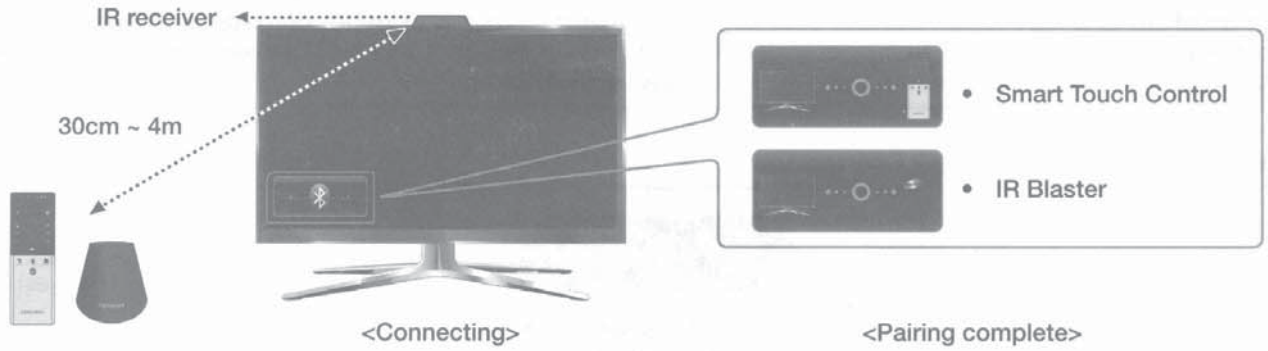
1. Hold the both sides of the battery holder and pull it out.
2. Insert the 4 AA into the battery compartment.
3. Push it back.

BN68-04345A-02

Initial Pairing

When you connect IR Blaster with your TV, you can control connected external devices with your TV using the Smart Touch Control.

✎ The product color and shape may vary depending on the model.



Smart Touch Control

1. Press any buttons on the Smart Touch Control toward the IR Receiver of TV's.
2. The connection icons appear on the bottom left of the screen, and the TV connects to your Smart Touch Control automatically.

✎ If you want to perform the pairing process again, press the **PAIRING** button in the center of the back cover. The Smart Touch Control will be initialized.

IR Blaster

1. Turn on the IR Blaster. When Indicator LED blinks, you should connect IR Blaster to TV.
2. Move the IR Blaster to the direction of your TV's IR receiver, and then press the **PAIRING** button once shortly on the bottom of the IR Blaster.
3. The connection icons appear on the bottom left of the screen, and the TV connects to IR Blaster automatically.

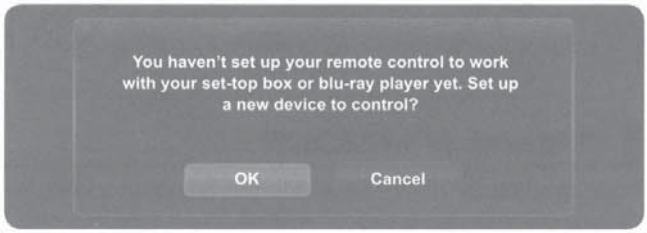
✎ If the connection process failed, please turn off and on the IR Blaster, try again from step2.

Setting up the Universal Remote

Lets you control a Set-Top Box (STB) or a BD player or both connected to the TV using your Smart Touch Control. After you connect the device to the TV, the Smart Touch Control can control the navigation, number, and other keys needed to operate and control the device.

For more detailed information, refer to the e-Manual.

1. If you connect the IR Blaster first time, select **OK** to set up the Smart Touch Control and the IR Blaster.


You haven't set up your remote control to work with your set-top box or blu-ray player yet. Set up a new device to control?
OK
Cancel

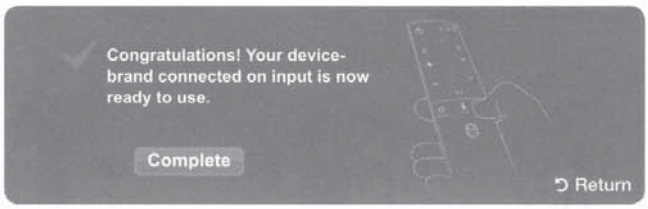
2. If you want to set up the Smart Touch Control and the IR Blaster again, press on the Smart Touch Control. Select **Set Up Universal Remote**.

3. Select **SET UP A DEVICE TO CONTROL**, and then set up the Universal Remote following the instructions on the screen.

4. The Recommended code data is downloaded to your Smart Touch Control and the IR Blaster.

✎ It appears connected Input terminal to **input**, the selected device and manufacturer to **device-brand**. For example, the Samsung's set-top box and **HDMI IN 3** when you connect it to, "Your set-top box-Samsung connected on HDMI 3 is now ready to use." appears.

✎ When setting the set-top box, you can search by the cable TV broadcaster's name in the step of searching manufacturer.



• The displayed image may differ depending on the model.

3D Active Glasses
SSG-3050GB

User's Guide

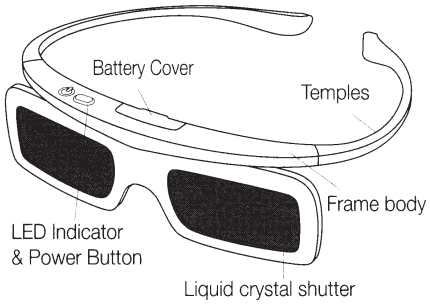
Features

The SSG-3050 GB 3D glasses enable you to view 3D images. To view 3D images, you need both a pair of the 3D glasses and a 2011 Samsung 3D TV. The SSG-3050GB glasses communicate with Samsung 3D TVs via the 2.4GHz RF band.

✎ The Samsung 3D glasses cannot connect to a non-Samsung wireless communication device.

✎ The Samsung 3D glasses can only connect to a Samsung 3D TV released in 2011 or after.

Parts



Components

3D Active glasses
(Frame body, Temples)

Button Battery
(CR2025)

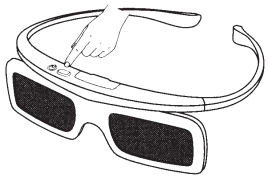
Temples

※ For information on how to attach the arms of the glasses and how to wear the glasses for those who already wear glasses, refer to page 11.

Pairing 3D Active Glasses

✎ **What is Pairing?** Pairing is a process of connecting 3D glasses and a 3D TV so that the two devices can exchange data.

✎ Ensure your Samsung TV and 3D glasses are no farther than 19.5 in (50 cm) apart from each another while pairing is in progress.



◆ **Turning the glasses on**

Press the power button briefly. The green LED is turned on for 3 seconds.

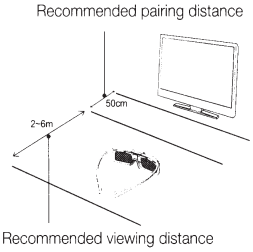
◆ **Turning the glasses off**

Press the power button briefly. The red LED is turned on for 3 seconds.

◆ **Performing the pairing process.**

The green and red LEDs will blink for 2 seconds if pairing is in progress.

◆ **Operating range**



Recommended viewing distance	2~6m (6 to 19.5 ft)
Recommended pairing distance	50 cm or less (19.5 in)

✎ The working distance depends on obstacles (a person, metal, walls, etc.) or electromagnetic waves.

✎ Turn off the 3D glasses while they are not in use. If you leave the 3D glasses on, the battery lifespan decreases.

◆ Pairing steps

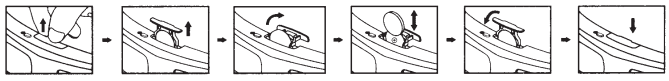
1. Turn on the TV, and then move the glasses within 19.5 inches of the TV.
2. Press the power button on the 3D glasses briefly. The 3D glasses will power on and pairing will start.
3. The message "3D glasses are connected to TV." will be displayed on the TV screen when the pairing is successfully completed.
   - ➢ If the pairing failed, the 3D glasses will power off.
   - ➢ If the first attempt to pair fails, power the TV off and on again and perform step 2.
   - ➢ **How to pair again:** Press the power button on the 3D glasses for more than 2 seconds.

<Pairing is needed again in the following situations:>

- If the The 3D glasses do not function even when the power button is pressed on the 3D TV after repair.
- If you want to view a 3D video on a different Samsung 3D TV released in 2011.

◆ Replacing the Batteries

If the red LED blinks every two seconds continually, replace the batteries with new ones.



Pull the cover | Open the cover | Fold the cover by 90 degrees | Replace the battery with a new one | Return the cover to the upright position | Close the cover by pushing it down

✎ Please insert the battery in the same direction as indicated.

◆ Viewing guidelines

- When viewing a 3D video under a fluorescent lamp (50 Hz – 60 Hz) or 3-wavelength lamp, you may notice a small amount of screen flickering.
  - ※ If this occurs, dim or turn off the light.
- Switching the input mode while watching a 3D movie may disable the 3D function on the TV. As a result, the 3D glasses may not function and the movie may not be displayed properly.
- If the 3D glasses are moved outside of their working distance, the signal from the TV will disconnect and the glasses' 3D function will turn off after several seconds. The 3D glasses will power off 30 seconds after the 3D function turns off. When this happens, the red LED will turn on for 3 seconds.
  - ※ Under some circumstances, the 3D glasses may malfunction due to interference from other devices.
- Ensure you are within the working distance of the glasses when you view a 3D video.
  - ※ The images may not be viewable in 3D if you move outside of the working distance for 3 seconds.
- If you lie on your side while watching TV with 3D active glasses, the picture may appear dark or may not be visible.
- The 3D glasses may not work properly due to interference from other 3D products or electronic devices that operate on the 2.4GHz frequency such as a microwave oven or Internet AP. If he 3D function malfunctions due to interference, please move all other electronic or wireless communication devices as far away from the glasses and the TV as possible.
- The 3D effect may be experienced differently depending on the viewer. You may not notice the 3D effect at all if you wear glasses and have an unusual prescription.
- If a part of the 3D glasses or lenses is defective or damaged, it cannot be repaired and the glasses should be replaced. If the glasses stop working within the warranty period, the glasses can be repaired or replaced for free. If the glasses have been damaged due to the fault of the customer or the warranty period has expired, a new pair of glasses will have to be purchased.

CAUTION

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D IMAGES. READ THE FOLLOWING CAUTIONS BEFORE YOU OR YOUR CHILD USE THE 3D FUNCTION.

- Adults should frequently check on children who are using the 3D function. If there are any complaints of tired eyes, headaches, dizziness or nausea, stop the child from viewing the 3D TV and ensure that they rest.
- Do not use the 3D glasses for other purposes such as general wear, sunglasses, protective goggles, etc.
- Some viewers may experience discomfort such as dizziness, nausea and headaches while viewing 3D TV. If you experience any of these symptoms, stop viewing the 3D TV, remove the 3D glasses and rest for awhile.
- Watching 3D pictures for an extended period of time may cause eye strain. If you experience any eye strain, stop viewing the 3D TV, remove the 3D glasses and rest for awhile.
- Do not use the 3D function or 3D glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injury from running into objects, tripping, and/or falling.

SAFETY PRECAUTIONS

The following safety instructions are to ensure your personal safety and prevent property damage. Please read them to ensure the proper use of the product.

- Do not place the product in a location exposed to direct sunlight, heat, fire or water. This may result in a product malfunction or fire.
- Do not apply force to the lenses of the 3D glasses. Do not drop or bend the product. This may result in a product malfunction.
- Use only the specified standard batteries. When replacing the battery, insert the battery so that its polarity (+, –) is correct. Failing to do so may damage the battery or result in fire, personal injury or environmental damage caused by liquid leaking from the battery.
- Keep the used battery out of the reach of children so that they do not accidently swallow the battery. If your child has swallowed the battery, consult your doctor immediately.
- When cleaning the product, do not spray water or cleaner directly onto the surface of the product. Spraying water or cleaner directly onto the glasses may result in fire or electric shock, damage to the product's surface, or cause the indicator labels on the product's surface to come loose.
- Do not use chemicals containing alcohol, solvents, or surfactants, or chemicals such as wax, benzene, thinner,mosquito repellant, lubricant or cleaners. These may cause a discoloration of or cracks in the product surface and cause the indicator labels on the product's surface to come loose.
- Since the product surface and lens are easily scratched, make sure to use a clean soft cloth (the cleaning cloth supplied with the product, a cloth consisting of superfine fibers or cotton flannel) when cleaning to avoid scratching either the surface or the lens. As the product may become scratched if there are any foreign items on the cloth, make sure to shake off any dust before using it.
- Never disassemble, repair, or modify the 3D glasses yourself. Do not use the glasses when they are out of order or broken.
- Take care that you do not injure your eyes with the edges of the frame of the 3D glasses when wearing them.
- Make sure to use only 3D glasses that are authorized and supplied by Samsung Electronics.

Troubleshooting

If you encounter...	Try this...
My 3D glasses do not work.	➢ Replace the battery. ➢ The 3D glasses should be close to the TV. Make sure that the distance between the TV and your 3D glasses is less than 19.68 feet (6m) in a straight line. ➢ Check the 3D function settings of your TV.
The LED keeps blinking	➢ The battery is dead. Replace the battery.

Specifications (Model Number: SSG-3050GB)

Optics	Shutters	Liquid crystal	Transmittance	35±2%
	Recommended viewing distance	2~6m (6.5 to 19.68 ft)	Field Rate	120 fields/s
Weight	Glasses	30.5g (including the battery: 33g)		
Power	Glasses	One 3V lithium/manganese dioxide battery 3V(CR2025)		
Power Consumption	Glasses	0.95mA (Average)		
	Battery	Type	165mAh, 3.0V (CR2025)	
		Operating time when On	150hours	
Operating Conditions	Operating Temperature	32 °F ~ 104 °F (0°C ~ 40°C)		
	Custody Temperature	-4 °F ~ 140 °F (-20°C ~ 60°C)		

✎ Product specifications may be changed without notice in order to enhance product performance.

✎ The continuous operating time may differ depending on the wireless communication environment and usage conditions.

WARRANTY

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should first return the product to the retailer from whom it was purchased. However, Samsung Authorized Service Centres will comply with this warranty during the Warranty Period. To obtain details, please contact your nearest Authorized Service Centre.

PROCEDURE FOR MAKING A WARRANTY CLAIM

To make a claim under the warranty, you must contact the Samsung Contact Centre (see details above) during the Warranty Period to discuss the problems you are having with the product. If a repair or replacement is required, you will be provided with a Warranty Claim Number and address of an Authorised Service Centre. If you are provided with a Warranty Claim Number, to obtain a repair or replacement of the product, you must send the product to the Authorised Service Centre advised together with:

- a copy of your completed warranty card or, if you have already provided this to Samsung, your name, address and contact telephone number;
- your original receipt, invoice or sales slip for the purchase of the product as new;
- your Warranty Claim Number.
  Samsung will then repair or replace the product and return it to you using the contact details provided.

WARRANTY CONDITIONS

1. The warranty is only valid if the above procedure for making a warranty claim is followed.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Samsung Authorised Service Centres. No re-imbursement will be made for repairs carried out by service centres or dealers that are not authorised by Samsung and any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbursement will be made for such adaptation, nor any damage which may result.
5. The warranty does not apply to any product that has been damaged or rendered defective as a result of any of the following excluded reasons, namely:
   - as a result of accident, misuse, or abuse;
   - through the failure to use this product for its normal purposes;
   - by the use of parts not manufactured or sold by Samsung;
   - by modification without the written permission of Samsung;
   - by damage resulting from transit, neglect, power surge or failure;
   - by damage resulting from lightning, water, fire, or acts of God;
   - as a result of normal wear and tear; or
   - difference in broadcasting methods or product standards between countries.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. NOTHING IN THESE WARRANTY CONDITIONS SHALL EXCLUDE OR LIMIT SAMSUNG'S LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY THE PROVEN NEGLIGENCE OF SAMSUNG, UNLESS SUCH LIMITATION OR EXCLUSION IS PERMITTED BY APPLICABLE LAW.
8. WITH THE EXCEPTION OF SAMSUNG'S LIABILITY WHICH CANNOT BE EXCLUDED OR LIMITED BY LAW, SAMSUNG SHALL NOT BE LIABLE FOR: ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES LOSSES OR EXPENSES; OR LOST PROFITS; OR LOSS OF USE OR LOSS OF DATA; OR DAMAGE TO GOODWILL, REPUTATION OR LOST BUSINESS, ARISING DIRECTLY OR INDIRECTLY, FROM THE PURCHASE, USE OR SALE OF THE PRODUCT, WHETHER OR NOT SAMSUNG WAS ADVISED OR AWARE OF THE POSSIBILITY OF SUCH DAMAGES, LOSSES OR EXPENSES.
9. WITH THE EXCEPTION OF SAMSUNG'S LIABILITY WHICH CANNOT BE EXCLUDED OR LIMITED BY LAW, SAMSUNG'S LIABILITY UNDER OR IN CONNECTION WITH THIS WARRANTY OR THE PURCHASE, USE OR SALE OF THE PRODUCT SHALL NOT EXCEED THE PRICE PAID FOR THE PRODUCT AS NEW.
10. UNLESS PROVIDED FOR IN THIS WARRANTY, ALL CONDITIONS, WARRANTIES AND TERMS IMPLIED BY STATUTE OR OTHERWISE ARE HEREBY EXCLUDED TO THE MAXIMUM EXTENT PERMISSIBLE BY LAW.
11. The above warranty conditions do not affect your statutory rights as a consumer or otherwise.

Regulatory Compliance Statements

◆NCC Taiwan

低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

◆FCC COMPLIANCE

Federal Communication Commission Interference Statement

1) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2) NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio requency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

   - Reorient or relocate the receiving antenna.
   - Increase the separation between the equipment and receiver.
   - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
   - Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modif cations not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

◆IC Statement

This Class B digital apparatus complies with Canadian ICES-003.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

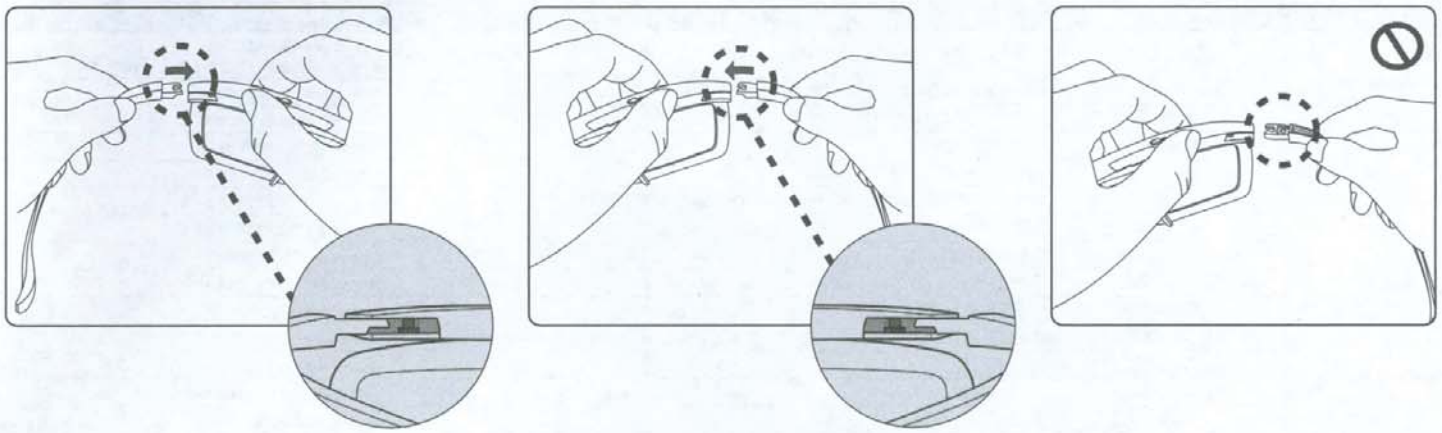
Italian Homologation Notice

Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548 ed in particolare a quanto specificato nell Art.2, comma 1.
Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548 Art.2, comma 1 ed al D.M.26.03.92 Art.1

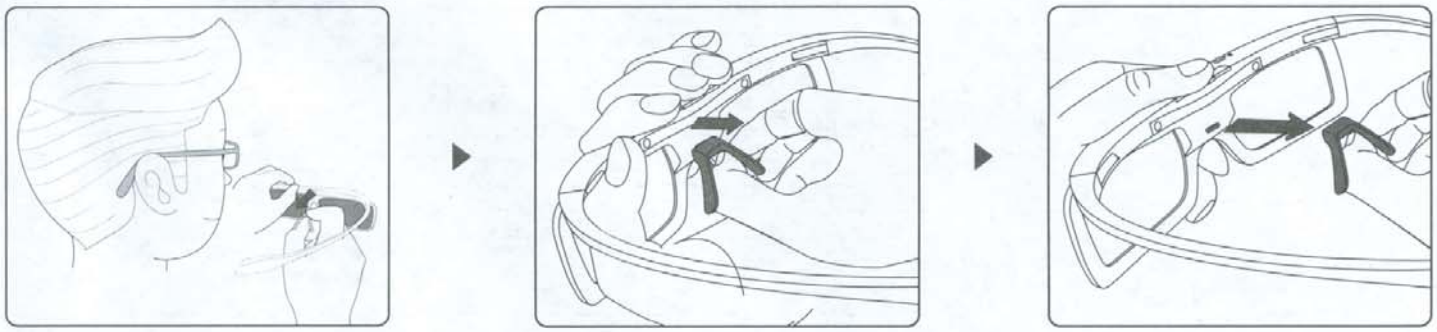
– For products produced in countries except European Community Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548 ed in particolare a quanto specificato nell Art.2, comma 1.

– For products produced in European Community Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548 Art.2, comma 1 ed al D.M.26.03.92 Art.1

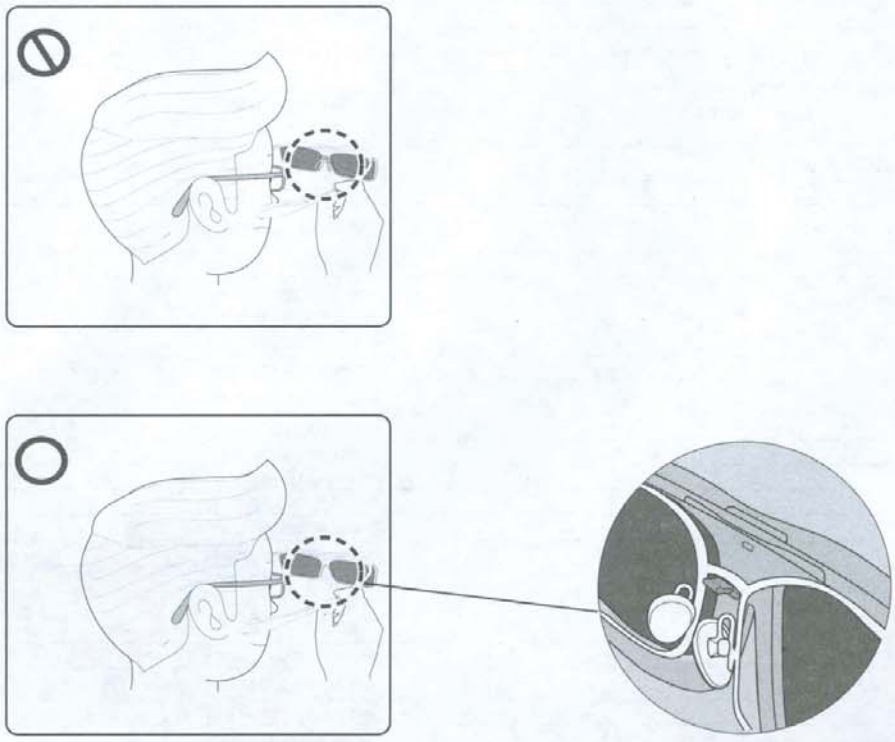
• Attaching the temples

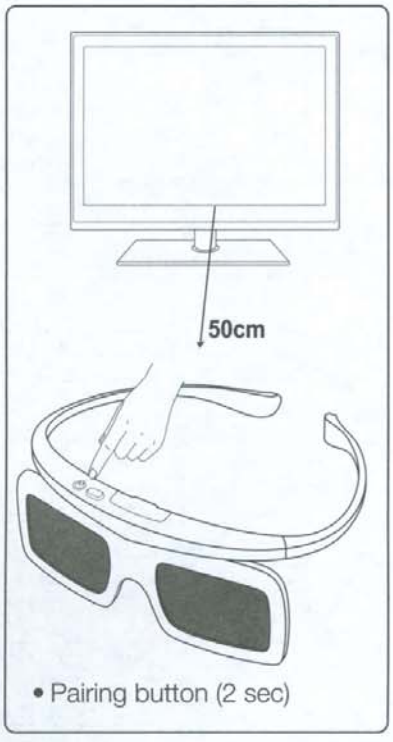


• Detaching the nose pad for people who wear glasses



◆ Pairing





• Pairing button (2 sec)

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

North America	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com www.samsung.com/ca_fr (French)
	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com
	BRAZIL	0800-124-421, 4004-0000	www.samsung.com
	CHILE	800-SAMSUNG(726-7864), From mobile 02-482 82 00	www.samsung.com
	BOLIVIA	800-10-7260	www.samsung.com
	COLOMBIA	01-8000112112	www.samsung.com
	COSTA RICA	0-800-507-7267	www.samsung.com
	DOMINICA	1-800-751-2676	www.samsung.com
	ECUADOR	1-800-10-7267	www.samsung.com
	EL SALVADOR	800-6225	www.samsung.com
	GUATEMALA	1-800-299-0013	www.samsung.com
	HONDURAS	800-27919267	www.samsung.com
	JAMAICA	1-800-234-7267	www.samsung.com
	NICARAGUA	00-1800-5077267	www.samsung.com
	PANAMA	800-7267	www.samsung.com
	PERU	0-800-777-08	www.samsung.com
	PUERTO RICO	1-800-682-3180	www.samsung.com
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com
	VENEZUELA	0-800-100-5303	www.samsung.com
CIS	RUSSIA	8-800-555-55-55	www.samsung.com
	GEORGIA	8-800-555-555	-
	ARMENIA	0-800-05-555	-
	AZERBAIJAN	088-55-55-555	-
	KAZAKHSTAN	8-10-800-500-55-500(GSM: 7799)	www.samsung.com
	UZBEKISTAN	8-10-800-500-55-500	www.samsung.com
	KYRGYZSTAN	00-800-500-55-500	www.samsung.com
	TADJIKISTAN	8-10-800-500-55-500	www.samsung.com
	MONGOLIA		
	UKRAINE	0-800-502-000	www.samsung.com/ua www.samsung.com/ua_ru
	BELARUS	810-800-500-55-500	-
	MOLDOVA	00-800-500-55-500	-
Asia Pacific	AUSTRALIA	1300 362 603	www.samsung.com
	NEW ZEALAND	0800 SAMSUNG (0800 726 786)	www.samsung.com
	CHINA	400-810-5858	www.samsung.com
	HONG KONG	(852) 3698 4698	www.samsung.com/hk www.samsung.com/hk_en/
	INDIA	1800 1100 11, 3030 8282, 1800 3000 8282, 1800 266 8282	www.samsung.com
	INDONESIA	0800-112-8888, 021-5699-7777	www.samsung.com
	JAPAN	0120-327-527	www.samsung.com
	MALAYSIA	1800-88-9999	www.samsung.com
	PHILIPPINES	1-800-10-SAMSUNG(726-7864) for PLDT 1-800-3-SAMSUNG(726-7864) for Digitel 1-800-8-SAMSUNG(726-7864) for Globe 02-5805777	www.samsung.com
	SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com
	THAILAND	1800-29-3232, 02-689-3232	www.samsung.com
	TAIWAN	0800-329-999 0266-026-066	www.samsung.com
	VIETNAM	1 800 588 889	www.samsung.com
Middle East	U.A.E	800-SAMSUNG (726-7864)	www.samsung.com www.samservice.com
	OMAN	800-SAMSUNG(726-7864)	www.samsung.com
	KUWAIT	183-2255	www.samsung.com
	BAHRAIN	8000-4726	www.samsung.com
	EGYPT	08000-726786	www.samsung.com
	JORDAN	800-22273	www.samsung.com
	IRAN	021-8255	www.samsung.com
	MOROCCO	080 100 2255	www.samsung.com
	SAUDI ARABIA	9200-21230	www.samsung.com
	TURKEY	444 77 11	www.samsung.com
Africa	NIGERIA	0800-726-7864	www.samsung.com
	GHANA	0800-10077 0302-200077	www.samsung.com
	COTE D' LVOIRE	8000 0077	www.samsung.com
	SENEGAL	800-00-0077	www.samsung.com
	CAMEROON	7095-0077	www.samsung.com
	KENYA	0800 724 000	www.samsung.com
	UGANDA	0800 300 300	www.samsung.com
	TANZANIA	0685 88 99 00	www.samsung.com
	SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com

BN68-03533V-04

SAMSUNG

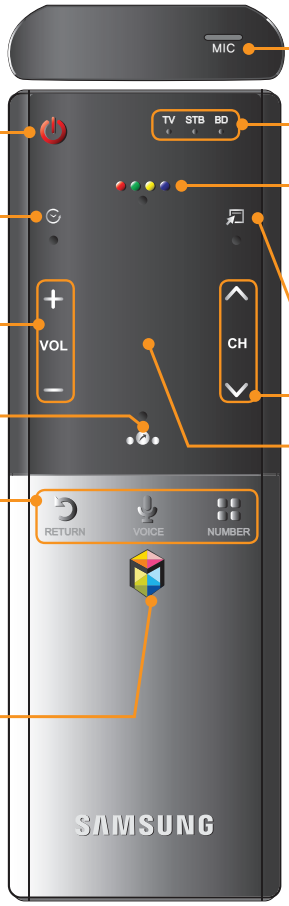
SMART TV
QUICK SETUP GUIDE

Samsung SMART TV

Smart Touch Control

Improved user convenience has been provided so that you can switch the channel and adjust the volume with just your fingertips while focusing on the TV screen. In addition, the built-in touch pad removes the need for a mouse when you change the menu settings and search for something on the Internet.

- For more detailed information about using the Smart Touch Control, refer to Smart Touch Control Guide (→ Support → Smart Touch Control Guide).
- Voice Control performance levels will vary based on the language spoken.
- Install the IR Blaster within 50 cm and 45 degrees in up, down, left and right from the IR sensor of the external device.



You can use **MIC** to instruct a Voice Control command. To activate **MIC**, simply press the **VOICE** button.

Turns the TV on and off.

LED to show the active device.

: Displays a list of recently used functions.

Shows the color button, exit button and play control buttons.

–VOL+: Adjusts the Volume.

: Quickly select frequently used functions.

CH: Changes channels.

Displays the shortcut functions list.

Touch Pad

- Scratch on the Touch Pad to move the focus on the screen.
- Click on the Touch Pad to run the focused item.
- Tap on the Touch Pad and hold to select the function the same as the **MUTE** button of the remote control. However, this action scrolls the page on a Web Browser.
- Tap on the Touch Pad or press the **RETURN** button to return to the normal state.

RETURN: Go to previous menu screen.

VOICE: Take your voice command and enter a text using your voice.

NUMBER: Displays the Number button screen. Select a digit using the touch pad.

- If no button is pressed for 30 seconds, the Touch Pad is automatically turned off.
- To use the Touch Pad again, press any button.

Brings up the Smart Hub applications.

Installing batteries (Battery size : AA)

1. Press the back of the remote at the very bottom with both thumbs, and then slide the battery cover up in the direction of the arrow.
2. Install two batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
3. Slide the cover down in the direction of the arrow to close the battery cover.

Initial Pairing

1. Press any buttons on the Smart Touch Control toward the Remote receiver of TV's.
2. The connection icons appear on the bottom left of the screen, and the TV connects to your Smart Touch Control automatically.

- If you want to perform the pairing process again, press the **PAIRING** button in the center of the back cover. The Smart Touch Control will be initialized.

SMART Interaction (Voice and Motion Control)

Using this function, you can access and control menu options and functions using speech or motions.

- For more detailed information about Smart Interaction, see “Smart Interaction” in e-Manual or User manual.
- The illustration of the manual may vary from the actual shape partially.

Voice Control Environment

- We are recommended using Voice Control function within about 13 ft with your TV.
  You can check the usable distance by using Voice Control Environment Test (System → Voice and Motion Control → Voice Control → Voice Control Environment Test).
- Voice Control function can be affected recognition by unclear pronunciation, voice level, or surrounding noise.

Motion Control Environment

We are recommended using Motion Control function within about 5 - 13 ft with your TV. TV Camera’s recognition range may differ depending on the angle of camera or other conditions.
You can check the recognition range of TV camera by using Motion Control Environment Test (System → Voice and Motion Control → Motion Control → Motion Control Environment Test).

Voice Control

You can use only your voice to switch the channel or adjust the volume level while focusing on the TV screen, which removes the need for the conventional remote control.

Menu → System → Voice and Motion Control → Voice Control

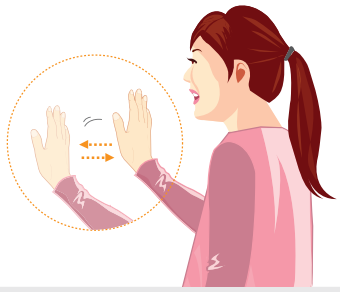
1. Set Voice Control to On.
2. If you set Trigger Words to Hi TV, say “Hi TV”, and then basic available commands such as TV Power Off are displayed on the screen.
3. To adjust the volume, simply say “Volume up” or “Volume down”.
4. To see more commands, say “More Commands”.

- You can select the Trigger Words that start the Voice Control function. Alternatively you can turn on your TV using the Trigger Words if Voice Control function is set to On.
  - If the Trigger Words is set to Hi TV, say Hi TV Power On.
  - If the Trigger Words is set to Smart TV, say Smart TV Power On.

Motion Control

Use a specific motion to switch the channel or adjust the volume level as well as to move the mouse pointer to a desired position while in web surfing with Smart Hub.

Menu → System → Voice and Motion Control → Motion Control



1. Set Motion Control to On.
2. TYou use the Motion Control, raise your hand unfolding it toward the screen, hold it for a moment and then wave it 3~4 times to the left and right. Motion Control starts. If the Motion Control starts, the cursor is displayed at the center of the screen and the Motion Guide Bar is at the bottom of the screen.
3. To switch the channel, point your hand to the channel up or down icon on the screen, and make a fist. If you hold the Run motion at the channel icon position, the channel will be changed continuously.

- Motion Control function can be affected recognition by user’s location, motion posture, or ambient brightness conditions.
- If it doesn’t work, adjust the angle of TV camera by using Motion Control Environment Test (System → Voice and Motion Control → Motion Control → Motion Control Environment Test).

Smart Hub

Using Smart Hub, you can stream movies, videos, and music from the Internet, access various for pay or free of-charge applications and view them on your TV.

Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

For more detailed information about Smart Hub, see “Smart Hub” in e-Manual.

✎ The illustration of the manual may vary from the actual shape partially.

Method 1 Menu → Support → Smart Hub

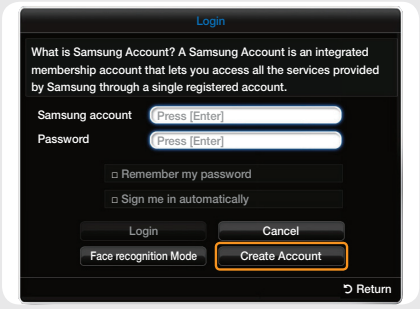
Method 2 Press the button on the remote control.

Main Features

- The displayed image may differ depending on the model.

Creating Your Samsung Account

If you have Samsung account, you can use Smart Hub easily.



1. Press the button on the remote control, Press the red A button on the remote control to display the Login window.
   ✎ When using the Smart Touch Control, press the **Return** button to close the button screen and use.
2. When the Login window appears, select the Create Account button.
3. Move to the Samsung account field, and then press the button. A window appears with an entry screen and a keypad. The ID must be a valid e-mail address in the following format: sample@sample.com or sample@sample.net. The same password in the confirm password field in the same fashion.
   ✎ If you have a Bluetooth or USB keyboard connected to the TV, enter your e-mail address using a Bluetooth or USB keyboard. When done, enter the password in the same way.
4. After entering all items, move to the Create Account item, and then the button. Your account will be created.

Downloading an app from Samsung Apps

Samsung Apps is a store from which you can download applications to use on Samsung TV/AV equipment.

1. Press the button on the remote control, and select Samsung Apps on the screen.
2. Go to your desired category, and select an app.
3. In the information screen for the selected app that appears, choose Download to install it.
4. After it is downloaded, choose Run to launch and enjoy it.

✎ You can find the icon of the newly installed app on the SMART HUB screen.

✎ Paid App in Samsung Apps Account registration is required.

Skype™ for Samsung TV

Getting started with Skype 2

To sign in with an existing account 3

To sign in using Face recognition 4

Face recognition 5

Creating new account 6

Screen display 7

Adding a contact 8

To call a contact 9

Receiving 10

History 11

Skype Options 12

Voice and Motion Control 13

* Images and colors can be changed without prior notice.

Getting started with Skype

Make calls and video calls with Skype on your TV.

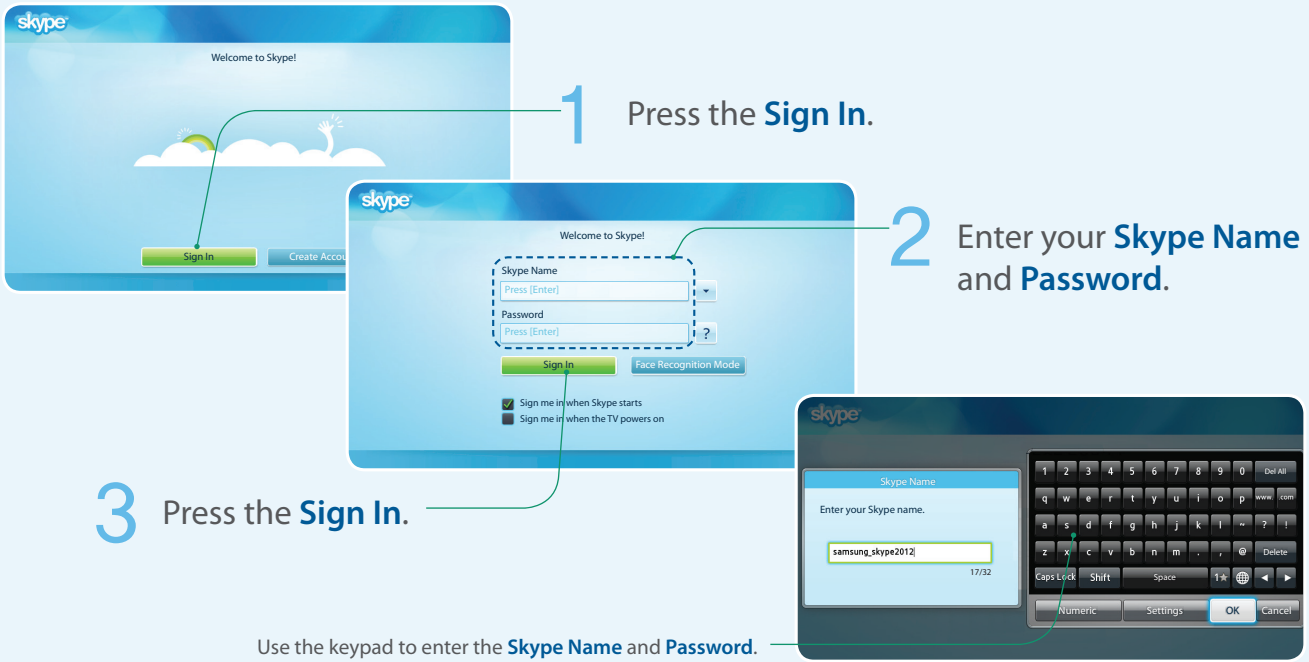
Make possible by SMART HUB - bringing useful and entertaining features directly from the web to your TV.

✎ NOTE

- Connect your SAMSUNG webcam directly to the TV, not through a USB hub.
- If the webcam isn't working properly, turn the TV off then on again, and relaunch Skype.
- Skype is disabled when the TV is turned off.
- Voice quality may be affected in a noisy environment.
- Using a wireless network can degrade call quality.
- Use of the Skype software is subject to the Skype End User License Agreement (skype.com/legal/eula), Skype Terms of Service (skype.com/legal/tos) and the Skype Privacy Policy (skype.com/legal/privacy/general).
- If Skype is deleted, saved information (History and Options) is deleted.
- For help using Skype, visit skype.com
- You need to configure your network before using Skype on your TV. See instructions in this manual.
- The ring bell rings when someone calls to you while you watch the TV or operate the Skype application.
- To use Skype you need the TV camera. Please buy the TV camera of the SAMSUNG if you don't have the TV a built-in camera.
- TV camera launched in 2010 and the SAMSUNG TV launched in 2012 are incompatible.
- Only Skype version 4.2 or greater is supported on Windows-based PCs.
- Only Skype version 5.0 or greater is supported on Macintosh PCs.
- Not supported on Linux-based PCs.

To sign in with an existing account

When running Skype on your TV for the first time, enter your **Skype Name** and **Password** or **Create Account**. If you can't login, check the network connection.



To sign in using Face recognition

- You can Sign in Skype using **Face recognition** on TV which supports SMART Interaction (**Voice and Motion Control**).

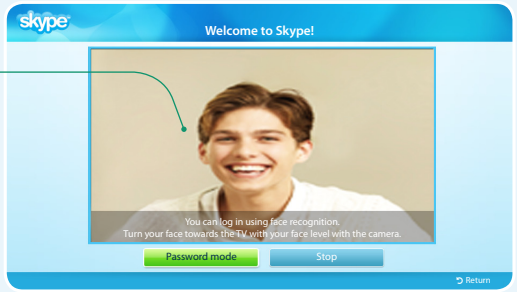
⚠ In order for Face recognition to function, a thumbnail image of your face will be stored in your TV for logging-in purposes.

⚠ Logging into the Skype using Face recognition does not provide as high a level of security as logging in with an ID and password.

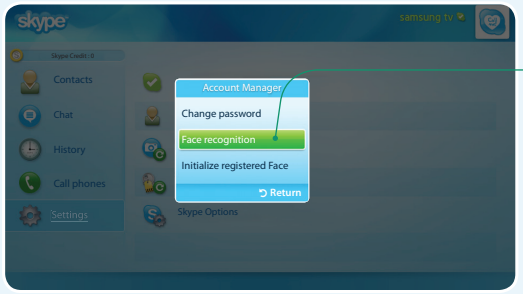
1 Press the **Face Recognition Mode**.

2 The TV starts Face recognition.

- Turn your face towards the TV with your face level with the camera. The TV will recognize your face automatically.

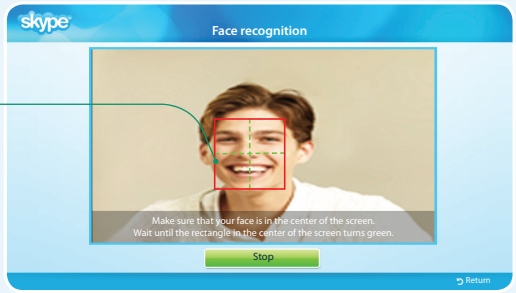

skype
Welcome to Skype!
You can log in using face recognition.
Turn your face towards the TV with your face level with the camera.
Password mode
Stop
Return

Face recognition



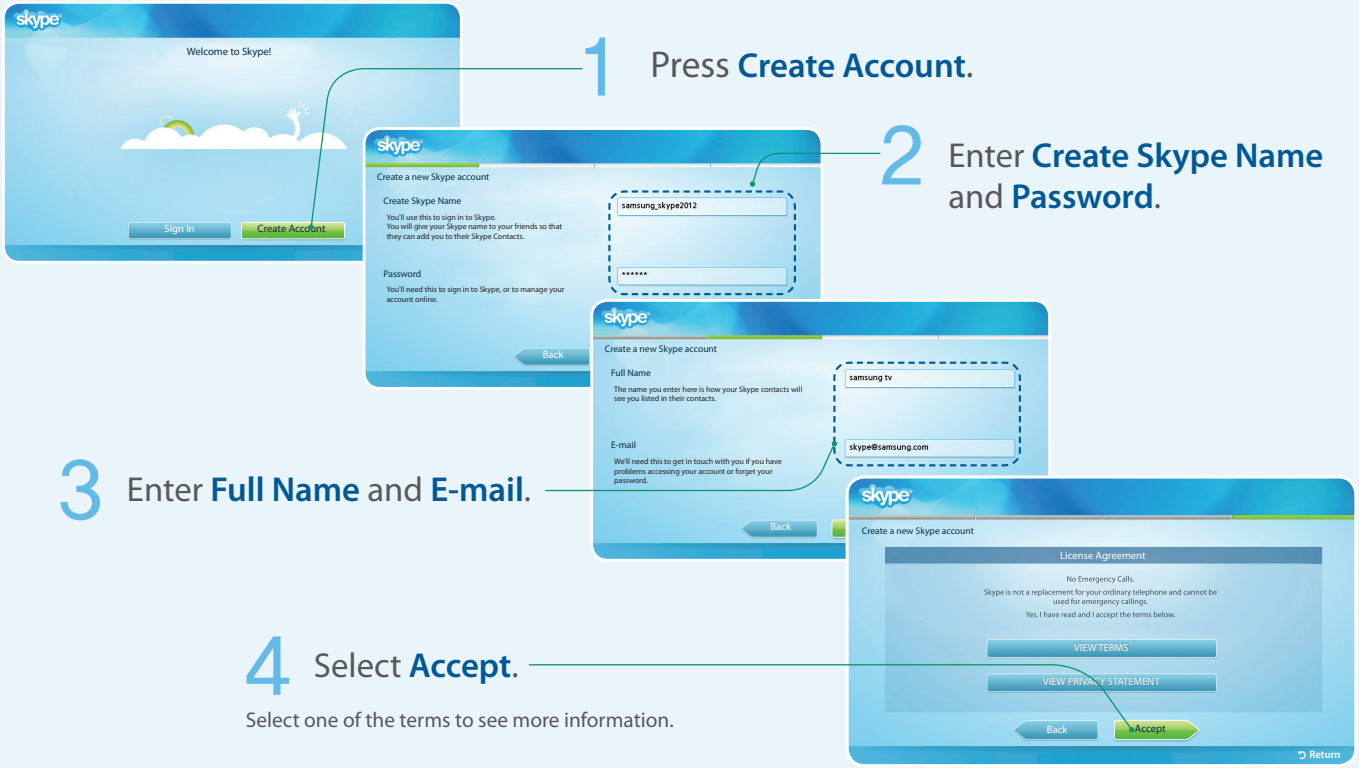
1 Select **Settings** → **Account Manager** → **Face recognition**.

2 The **Face recognition** screen appears.

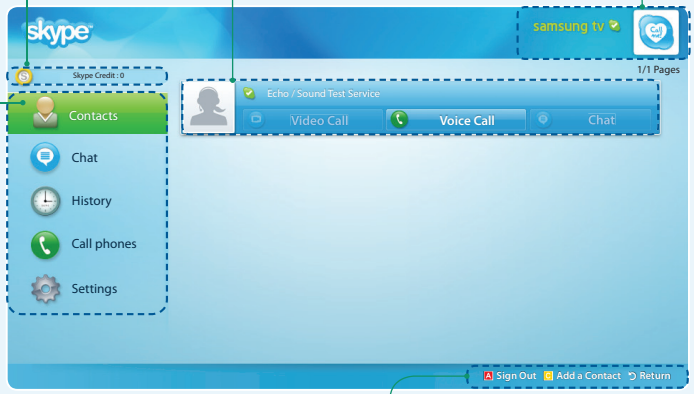

skype
Face recognition
Make sure that your face is in the center of the screen.
Wait until the rectangle in the center of the screen turns green.
Stop
Return

- Make sure that your face is in the center of the screen.
- Wait until the rectangle in the center of the screen turns green.

Creating new account


skype
Welcome to Skype!
Sign In
Create Account
1 Press Create Account.
Create a new Skype account
Create Skype Name
You'll use this to sign in to Skype.
You will give your Skype name to your friends so that they can add you to their Skype Contacts.
samsung_skype2012
Password
You'll need this to sign in to Skype, or to manage your account online.
Back
2 Enter Create Skype Name and Password.
Full Name
The name you enter here is how your Skype contacts will see you listed in their contacts.
samsung tv
E-mail
We'll need this to get in touch with you if you have problems accessing your account or forget your password.
skype@samsung.com
3 Enter Full Name and E-mail.
License Agreement
No Emergency Calls.
Skype is not a replacement for your ordinary telephone and cannot be used for emergency callings.
Yes, I have read and I accept the terms below.
VIEW TERMS
VIEW PRIVACY STATEMENT
Accept
Return
4 Select Accept.
Select one of the terms to see more information.

Screen display

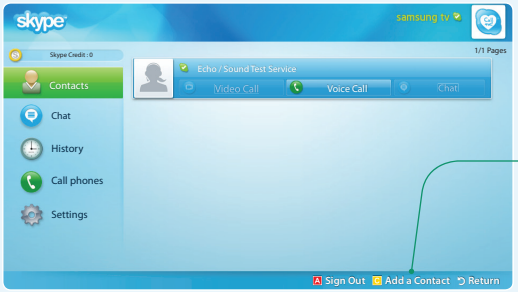

Skype Credit
Your contact list. You can select Video call, Voice call or Chat mode.
Your Skype Name, online status, mood message and profile picture.
Select from the menu items Contact, Chat, History, Call phones and Settings. From the menu item press ENTER and scroll to the desired option.
skype
samsung tv
Skype Credit : 0
1/1 Pages
Contacts
Chat
History
Call phones
Settings
Echo / Sound Test Service
Video Call
Voice Call
Chat
A Sign Out
C Add a Contact
Return

A **Sign out**: Select to Sign out.

C **Add a Contact**: Add a Skype contact or a phone number.

Return / End Call: Returns to the previous menu. / End the skype application with the call.

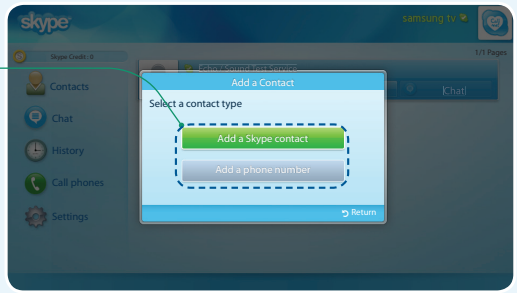
Adding a contact



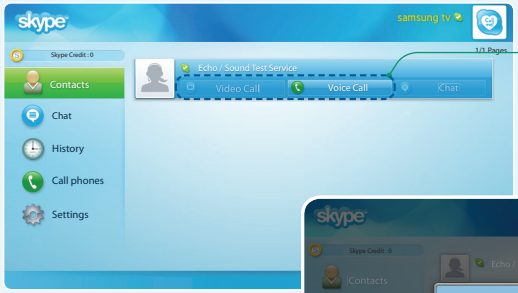
1 C Press **Add a Contact**.

2 Select one.

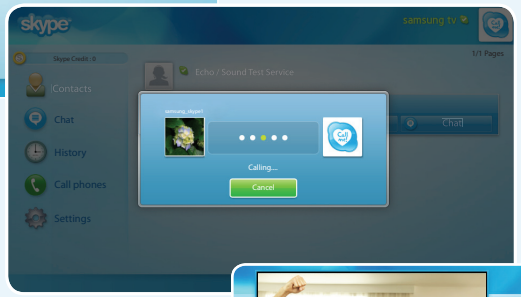
- **Add a Skype contact** : Enter the person's Skype name, full name or e-mail.
- **Add a phone number** : Enter the name and phone number.



To call a contact



1 Press **Video Call** or **Voice Call**.



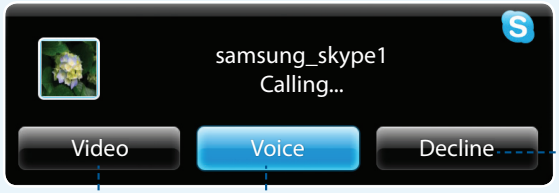
- The illustration of the manual may vary from the actual shape partially.

Video Call

Voice Call

Receiving

When in a video or voice call.



Rejects Call.

Video Call

Voice Call

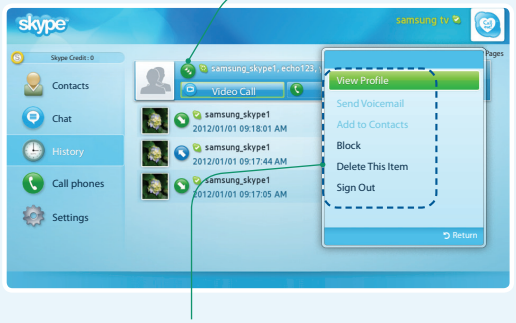
- If a conference call comes in, the Video option is disabled.

- End Call: Hang up the call.
- **Stop Video**: Turns the camera off.
- **Mic. Vol.**: Adjusts the microphone volume.
- **Hold / Resume**: Hold/ Resume the call.
  - A Skype contact will see a notification message when they are put on hold.
- **Start Video**: Switches to a video call.

- B **(Full Screen)**: Switch to full screen.
- D **(Contact list)**: Displays the contact list.

History

Shows the history of calls you've made, listed from most recent to oldest, top to bottom respectively.



- **View Profile**: View the selected contact's profile.
- **Send Voicemail**: Send a voicemail message to the selected contact.
- **Add to Contacts**: Add this person as a contact. This option is available when you don't have this person saved in your Contact list.
- **Block**: Block this person from contacting you.
- **Delete This Item**: Remove this item from your History.
- **Sign Out**: Signs out.

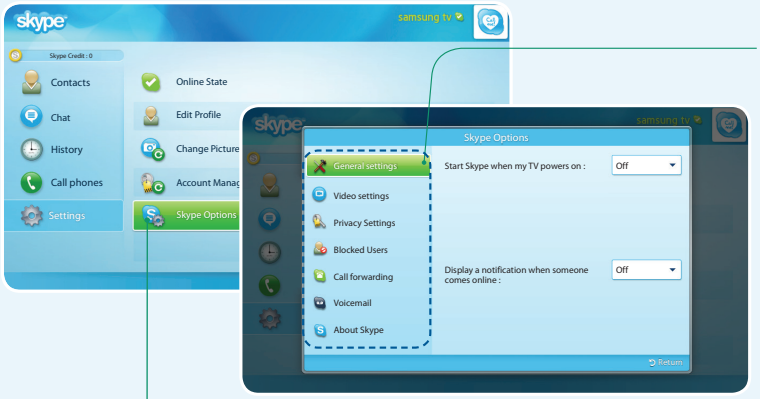
✎ History can be limited by memory capacity.

✎ The time set on the TV is applied to the History.

Each call has an icon next to it.

Icons	Meaning
	Incoming call
	Outgoing call
	Missed call
	Incoming voicemail
	Missed voicemail
	Incoming conference call
	Missed conference call

Skype Options



1 Select **Settings** → **Skype Options**.

2 Change the each option(s).

- **General settings**: Select whether you want Skype to launch automatically when you turn on the TV.
- **Video settings**: Adjust the privacy settings for video. Choose who you will receive video from by selecting **Anyone**, **Only people in my Contact list** or **No one**.
- **Privacy Settings**: Choose who you will receive calls from. Select **Allow anyone to contact me** or **Only allow people in my Contact list**.
- **Blocked Users**: If you don't want to hear from someone, block them by entering their Skype Name or phone number. Any blocked persons will be listed in this window. You can also block a person in the Contact and History lists by selecting the contact and pressing the TOOLS button.
- **Call forwarding (diverting calls)**: To forward calls from your Skype account when you're not on Skype, add the phone numbers you want calls directed to. Select the country and enter the number with the area code. Enter the divert time to specify the delay before the call is diverted. You need to buy Skype Credit from skype.com to use this feature.
- **Voicemail**: This feature allows people to leave audio messages when you are away. You can listen to the messages wherever you are signed into Skype. For more information or to get voicemail, go to skype.com and click on Account.
- **About Skype**: View the Skype copyright information.

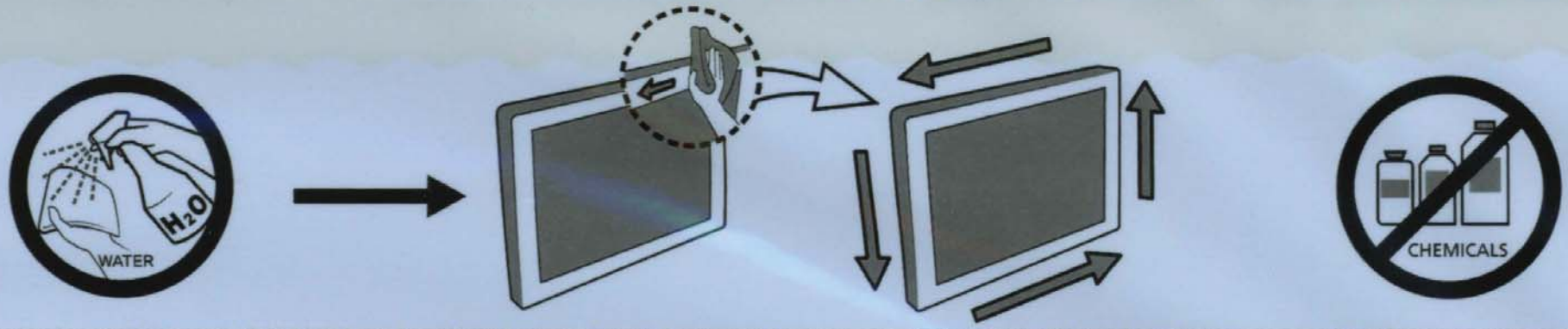
Voice and Motion Control

- You can call or manipulate in Skype using **Voice and Motion Control** on TV which supports SMART Interaction (**Voice and Motion Control**).
- You can't use **Voice Control** function When in a call.
- **Voice Control** function can be affected recognition by difficult to pronounce name such as including special characters or simple letters of the alphabet, numbers. You can change it by using **Rename**.
- For more detailed information about Smart Interaction, see "Smart Interaction" in e-Manual or User manual.

1 Say "**Hi TV**(**Trigger Words**)", and then say the name of the person you want to call.

2 Say one.

3 Say **Video Call** or **Voice Call** that will start.



한국어

본 제품의 외관 면은 고광택 고급 사양으로 긁힘에 약하므로 설치시 주의하세요.
청소 전, 전용 천의 먼지를 충분히 털어 주세요. 전면 캐비닛은, 반드시 제공된 전용 천에 분무기를 이용하여 물을 4~6회 분사한 후, 한 방향으로 천천히 닦아 주세요. 닦았을때 물기가 많으면 얼룩이 생길 수 있습니다.
세척제로는 꼭 물만 사용해주세요.

English

This product is high glossy, Please be careful of surface scratch while installation.
Make sure to brush off the dirt on the provided cloth before cleaning the cabinet. For cleaning the front cabinet, make sure you use only the provided cloth on which to spray water 4 to 6 times before wiping it out softly in one direction. After cleaning, wipe the cabinet to remove any moisture.
Only use water as a cleansing solution.

Français

Ce produit est recouvert d'une couche de brillant vulnérable aux rayures ; il convient, par conséquent, de rester vigilant durant l'installation.
Veillez à enlever la saleté à l'aide du chiff on fourni avant de nettoyer le châssis. Pour nettoyer le meuble avant, assurez-vous de n'utiliser que le chiff on fourni. Aspergez-le d'eau 4 à 6 fois puis nettoyez en frottant dans une seule direction. Après le nettoyage, essuyez le châssis pour enlever l'humidité.
N'utilisez que de l'eau comme produit de nettoyage.

Deutsch

Dieses Produkt hat eine hochglänzende Oberfl äche, die sehr leicht zerkratzt werden kann, weshalb während der Montage besondere Vorsicht geboten ist.
Vergewissern Sie sich, dass das mitgelieferte Tuch sauber ist, bevor Sie es zum Reinigen des Gehäuses verwenden. Zum Reinigen der Vorderseite verwenden Sie bitte nur das mitgelieferte Tuch, auf das sie 4 bis 6 Spritzer Wasser auftragen. Wischen Sie dann in eine Richtung vorsichtig über die Fläche. Wischen Sie das Gehäuse nach dem Reinigen trocken.
Verwenden Sie nur Wasser als Reinigungsmittel.

Italiano

Il prodotto è molto lucido sulla superfi cie, che si può graffi are facilmente; occorre fare attenzione durante l'installazione.
Prima di eff ettuare la pulizia del telaio, assicurarsi che il panno appositamente fornito sia pulito. Per pulire la parte anteriore del cabinet, assicurarsi di utilizzare solo il panno fornito, che dovrà essere spruzzato d'acqua 4 o 6 volte prima di strofi narlo delicatamente in un'unica direzione. Dopo la pulizia, asciugare il telaio per rimuovere ogni traccia di umidità.
Come sostanza pulente, utilizzare solo acqua.

Español

Este producto tiene un revestimiento muy brillante en la superfi cie vulnerable a arañazos; tenga mucho cuidado durante la instalación.
Elimine la suciedad del paño suministrado antes de limpiar la caja. Para limpiar el la caja frontal, asegúrese de que utiliza únicamente un paño y de que lo rocía entre 4 y 6 veces antes de pasarlo suavemente en una dirección. Después de limpiar la caja, séquela cuidadosamente para eliminar la humedad.
Limpie únicamente con agua.

Português

Este produto possui um acabamento brilhante na superfície particularmente sujeito a riscos; devem ser tomadas as devidas precauções durante a instalação.
Sacuda o pó do pano fornecido antes de limpar a caixa. Para proceder à limpeza da parte frontal, certifi que-se de que utiliza apenas o pano fornecido, ligeiramente humedecido, limpando suavemente numa única direcção. Depois da limpeza, passe um pano seco sobre a caixa do aparelho para remover a humidade.
Utilize apenas água como solução de limpeza.

Polski

Ten produkt ma powierzchnię lakierowaną o wysokim połysku, która jest bardzo podatna na zarysowania, dlatego należy uważać podczas montażu.
Przed przystąpieniem do czyszczenia obudowy należy strzepać brud z dołączonej szmatki. Do czyszczenia przedniej części należy używać wyłącznie załączonej szmatki, którą należy spryskać 4–6 razy wodą, a następnie przecierać powierzchnię w jednym kierunku. Po zakończeniu czyszczenia wytrzeć obudowę na sucho.
Jedynym odpowiednim środkiem czyszczącym jest woda.

Русский

Поверхность этого устройства с глянцевым покрытием легко поцарапать; соблюдайте осторожность во время установки.
Перед очисткой корпуса, сотрите с него пыль с помощью прилагаемой ткани. При чистке передней стороны корпуса используйте только прилагаемую ткань, предварительно увлажнив ее 4-6 раз распылителем влаги. Затем без лишних усилий вытирайте движениями в одном направлении. После чистки вытрите корпус до полного удаления влаги.
Используйте для чистки только воду.

Türkçe

Ürünün cilalanmış olan yüzeyi çizilmelere karşı hassastır; dolayısıyla kurulum esnasında dikkatli olunmalıdır.
Dolabı temizlemeden önce, ürünle birlikte sağlanan bezin fırça ile temizlendiğinden emin olun. Ön kabini temizlemek için yalnızca birlikte gelen kumaşı kullanın ve kumaşa 4 ila 6 kez su püskürttükten sonra tek yönlü olarak nazikçe silin. Temizledikten sonra, nemden arındırmak için dolabı silin.
Temizleme çözeltisi olarak yalnızca su kullanın.

中文

该产品为高光产品，安装时必须小心以避免划伤表面。
清洁机壳前，请确保掸去随附的布片上的灰尘。
清洁机壳时，请确保您只使用随附的布片，先在布片上喷水4到6次，然后沿着同一方向轻轻擦拭。清洁完成后，请彻底擦掉机壳上的水份。
只能使用水作为清洁溶液。

BN63-02368B-00

Guide for Eco Solution

English

Eco Sensor measures the light in your room and optimizes the brightness of the TV automatically to reduce power consumption. This causes the TV to get brighter or dimmer automatically. If you want to turn this function off, go to **Menu > System > Eco Solution > Eco Sensor**

Do not block the sensor with any material. It can decrease picture brightness.

Français

Le Capteur Eco mesure la lumière de votre pièce et optimise automatiquement la luminosité du téléviseur pour réduire la consommation d'énergie. Cela provoque la modification automatique de la luminosité de votre téléviseur. Pour désactiver cette fonction, accédez à **Menu > Système > Solution Eco > Capteur Eco**

Évitez d'obstruer le capteur par un objet, car cela diminuerait la luminosité de l'image

Español

Sensor económico mide la iluminación ambiental y mejora automáticamente el brillo del televisor para reducir el consumo de energía. Esto hace que el brillo del televisor se avive o se atenúe automáticamente. Si desea desactivar esta función, vaya a **Menu > Sistema > Solución Eco > Sensor Eco**

No tape el sensor con ningún objeto ni material. Podría reducir el brillo de la imagen.

English

1. Eco sensor This power-saving feature automatically adjusts the screen brightness of the TV according to the ambient light intensity detected by the Light Sensor.
2. Enabling or Disabling Eco Sensor Go to **System** → **Eco Solution** → **Eco Sensor** and select **On** or **Off**.
3. Precaution If you find the screen too dark while watching TV in a dark area, this may be caused by the **Eco Sensor**.

Français

1. Cette caractéristique d'économie d'énergie règle automatiquement la luminosité du téléviseur en fonction de l'intensité de la lumière ambiante détectée par le capteur de lumière.
2. Pour activer ou désactiver le Capteur Eco allez à **Système** → **Solution Eco** → **Capteur Eco**, puis sélectionnez **Activer** ou **Dèsactiver**.
3. Si l'image semble trop sombre durant l'écoute du téléviseur dans une pièce sombre, cela peut être attribuable au **Capteur Eco**.

Español

1. Esta función de ahorro de energía ajusta automáticamente el brillo de la pantalla del televisor de acuerdo con la intensidad de la iluminación ambiental detectada por el sensor de luz.
2. Vaya a **Sistema** → **Solución Eco** → **Sensor Eco** y seleccione **Encendido** o **Apagado**.
3. Si mientras ve la televisión en un entorno con poca luz le parece que la pantalla está demasiado oscura, esto puede deberse al **Sensor Eco**.

BN68-03608C-00

DO NOT RETURN
TO STORE

For any problem

Search helpful video
samsung.com/spsn

Chat
samsung.com/support

Call Samsung Support
1-888-899-7604

Scan this with your smartphone

BN68-03608A-08

Top 5 Troubleshooting Tips

1. Can't Connect with Network or Apps (For internet supported model only)
- Make sure there is a network connection
  (Menu → Network → Network status)
- Contact your service provider

2. No Picture/Sound or Distorted Picture/Sound with an External Device
- Make sure your connection to the device is correct.
- Perform a TV Self Diagnosis to identify the problem
  (Menu → Support → Self Diagnosis → Sound or Picture Test)
- Change the picture size (Use "P. Size" button on your remote)

3. Poor Picture Quality
- Verify your signal is High Definition or Standard Definition
  (Contact your service provider)

4. Your Settings are Lost after 30 Minutes
- Change to Home Mode
  ("Tools" on your remote → Store Demo Off)

5. "Weak or No Signal" Displayed in TV Mode / Cannot Find Channel
- Press Source button on your remote
- Run Auto Program and search for channels
  (Menu → System → Plug & Play → Enter)

TV 5 Problemas Principales

1. No se puede conectar con la Red o Apps (Solo para modelos que soporten conexión a internet)
- Asegúrese que el equipo este conectado a una red
  (Menú → Red → Estado de Red)
- Contactar a su proveedor de Internet

2. No hay Imagen/sonido o Distorsión de Imagen/sonido con un dispositivo externo
- Asegure que la conexión física del dispositivo sea correcta
- Para identificar el problema, realice un Auto diagnostico en la TV
  (Menú → Soporte de Tecnico → Autodiagnostico
  → Prueba de Imagen o Sonido)
- Cambie el tamaño de la imagen (Use el botón "P. Size" del control remoto)

3. Mala Calidad de Imagen
- Verificar si su señal es Alta Definición o Definición Regular
  (Contactar a su proveedor de Servicios)

4. Su configuración se pierde después de 30 minutos
- Cambiar a Uso Domiciliario
  (Use el botón "Tools" del control remoto → Demo Comercio Desac.)

5. "Señales Debiles o Inexistentes" Mensaje desplegado en TV Mode / No puede encontrar canales
- Presione el botón "Source" en su control remoto
- Corra Auto Program e inicie búsqueda de canales
  (Menú → Sistema → Plug & Play → Enter)

Scan the QR code to view our helpful How-to Videos

Escanear el Codigo QR para ver nuestros videos demostrativos de Video Guia

1. 2. 3. 4. 5.

SAMSUNG

Warning! Important Safety Instructions

(Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.)

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Install the product keeping the specified distance from the wall (see the information below.)
    * DLP TVs, Direct View Type TVs, and Projectors → 10cm
    * Products with 32" or larger display s → 5cm
    * Other products → 4cm
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place a water containing vessel (vases etc.) on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this appratus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This appratus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corrsponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so many create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this appratus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
  - Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service center.
- Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent. This may damage the appearance or erase the printing on the product.
- Apparatus shall not be exposed to dripping or splashing.
- Do not dispose of batteries in a fire.
- Do not short circuit, disassemble or overheat the batteries.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- **WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.**

Avertissement! Consignes de sécurité importantes

(Avant toute installation de votre prod uit Samsung,
veuillez lire les sections correspondant aux inscriptions qui figurent sur ce de rnier.)

ATTENTION

RISQUE D'ELECTROCUTION NE PAS OUVRIR

ATTENTION: POUR REDUIRE LES RISQUES D'ELECTROCUTION, NE RETIREZ PAS LE CAPOT (NI LE PANNEAU ARRIERE). A L'INTERIEUR DE L'APPAREIL, AUCUNE PIECE NE PEUT ETRE REPAREE PAR L'UTILISATEUR. POUR TOUT DEPANNAGE, ADRESSEZ-VOUS A UN SPECIALISTE.

Ce symbole indique qu'une tension élevée est présente à l'intérieur de l'appareil. Tout contact avec une pièce située à l'intérieur de cet appareil est dangereux.

Ce symbole vous prévient qu'une documentation importante relative au fonctionnement et à l'entretien est fournie avec le produit.

- Les fentes et les ouvertures ménagées dans le boîtier ainsi qu'à l'arrière et au-dessous de l'appareil assurent la ventilation de ce dernier. Afin de garantir le bon fonctionnement de l'appareil et éviter les risques de surchauffe, ces fentes et ouvertures ne doivent être ni obstruées ni couvertes.
  - Ne couvrez pas les fentes et les ouvertures avec un morceau de tissu ou tout autre objet.
  - Ne les obstruez pas non plus en plaçant l'appareil sur un lit, un canapé, un tapis ou toute autre surface apparentée.
  - Ne placez pas l'appareil dans un environnement clos tel qu'une bibliothèque ou une armoire encastrée, sauf si une ventilation adéquate est prévue.
  - Installez le produit en maintenant une distance correcte avec le mur (voir informations ci-dessous).
    * Téléviseurs DLP, téléviseurs de type Direct View et projecteurs → 10 cm
    * Appareils dotés d'un écran 32" ou plus → 5 cm
    * Autres produits → 4 cm
- Ne placez pas l'appareil à proximité ou au-dessus d'un radiateur ou d'une bouche d'air chaud, de même que dans un endroit exposé à la lumière directe du soleil.
- Ne placez aucun récipient (vases etc.) d'eau sur l'appareil car cela représente un risque d'incendie ou de décharge électrique.
- N'exposez pas l'appareil à la pluie et ne le placez pas à proximité d'une source d'eau, par exemple une baignoire, un lavabo, un évier, un bac de lavage, un sous-sol humide, une piscine, etc. Si l'app areil vient à être mouillé par accident, débranchez-le et contactez immédiatement un revendeur agréé. Assurez-vous que le cordon d'alimentation est débranché avant de nettoyer le produit.
- Cet appareil peut fonctionner sur piles. Dans un souci de préservation de l'environnement, la réglementation locale prévoit peut-être des mesures spécifiques de récupération des piles usagées.Veuillez donc contacter les autorités compétentes afin d'obtenir des informations sur la mise au rebut ou le recyclage des piles.
- Evitez de surcharger les prises murales, les rallonges et les prises mult iples car cela entraîne un risque d'incendie ou de décharge électrique.
- Les cordons d'alimentation doivent être déroulés de sorte qu'aucun objet placé sur ou contre eux ne les chevauche ou les pince. Accordez une attention particulière aux cordons au niveau des fiches, des prises et de la sortie de l'appareil.
- En cas d'orage, ou bien lorsque vous vous absentez ou n'utilisez pas votre appareil pendant une longue période, débranchez celui-ci de la prise murale et débranchez également le câble d'antenne ou le cordon de connexion au réseau câblé. Ces précautions éviteront que l'appareil ne soit endommagé par la foudre ou par des surtensions.
- Avant de raccorder le cordon d'alimentation CA à la prise de l'adaptateur CC, vérifiez que la tension indiquée sur ce dernier correspond bien à la tension délivrée par le réseau électrique local.
- N'insérez aucun objet métallique dans les ouvertures de l'appareil. vous risqueriez de recevoir une décharge électrique.
- Afin d'éviter tout risque d'électrocution, ne mettez jamais les doigts à l'intérieur de l'appareil. Seul un technicien qualifié est habilité à ouvrir le boîtier de l'appareil.
- Assurez-vous de bien brancher le cordon d'alimentation. Assurez-vous de bien tenir la prise en main lorsque vous la débranchez. Ne touchez en aucune circonstance le cordon d'alimentation avec les mains mouillées.
- Si l'appareil ne fonction ne pas normalement, en particulier s'il émet des odeurs oudes sons anormaux, débranchez-le immédiatement et contactez un revendeur ou un centre de dépannage agréé.
- Veillez à bien débrancher le cordon d'alimentation si la télévision doit restée inutilisée, ou lorsque vous quittez votre domicile, pendant une période assez longue (et plus spécialement si des enfants, des personnes âgées ou des majeurs incapables doivent rester seul à votre domicile).
  - L'accumulation de poussières peut provoquer une électrocution, une perte d'énergie, ou un incendie induit par le cordon d'alimentation, dû à des variations de tension, une surchauffe ou une détérioration de l'isolation.
- Veillez à contacter un centre de services homologué lorsque vous installez votre téléviseur dans un endroit très poussiéreux, humide, exposé à des températures élevées ou faibles ou à des produits chimiques, ou s'il fonctionne sans interruption, par exemple dans les aéroports, les gares, etc. Si vous ne le faites pas, vous risquez d'endommager gravement votre téléviseur.
- Utiliser uniquement des prises correctement reliées à la terre.
  - Un sol inadapté peut causer un choc électrique ou un incendie. (Appareils de CLASSE I uniquement.)
- Pour déconnecter l'appareil du secteur, la prise doit être débranchée de la prise électrique du secteur. Par conséquent, la prise du secteur doit être en état de marche.
- Utiliser uniquement des prises correctement reliées à la terre.
- Rangez les accessoires (batterie, etc.) dans un endroit sûr, hors de la portée des enfants.
- N'installez pas le produit sur une surface instable telle qu'une étagère chancelante, un sol non horizontal ou un endroit soumis à des vibrations.
- Ne faites ni tomber, ni subir de choc au produit. Si le produit est endommagé, déconnectez le cordon d'alimentation et contactez un centre de services.
- Débranchez le cordon d'alimentation de la prise secteur et essuyez le produit à l'aide d'un chiffon doux et sec. N'utilisez pas de produit chimique, tels que de la cire, du benzène, de l'alcool, du diluant, de l'insecticide, du désodorisant, du lubrifiant ou du détergent. Cela peut endommager l'aspect ou effacer l'impression sur l'appareil.
- L'appareil ne doit pas être exposé à l'humidité ni aux éclaboussures.
- Ne jetez pas les batteries au feu.
- Ne court-circuitez pas ni ne désassemblez les batteries et ne les soumettez pas à une chaleur excessive.
- Un risque d'explosion survient si la batterie est replacée de manière incorrecte. Ne la remplacez qu'avec une batterie du même type.
- **AVERTISSEMENT - POUR ÉVITER TOUT RISQUE D'INCENDIE, VEILLEZ À GARDER CE PRODUIT LOIN DE BOUGIES OU D'AUTRES SOURCES DE FEU.**

Advertencia! Instrucciones importantes de seguridad

(Lea la sección apropiada que corresponde a la
marca del producto Samsung antes de intentar instalar el producto.)

PRECAUCIÓN

PELIGRO DE DESCARGA·ELÉCTRICA NO ABRIR

PRECAUCIÓN: PARA REDUCIR EL PELIGRO DE DESCARGA ELÉCTRICA, NO RETIRE LA CUBIERTA. NO HAY PIEZAS EN EL INTERIOR QUE PUEDA REPARAR EL USUARIO.
CONSULTE AL PERSONAL CALIFICADO DE SERVICIO TÉCNICO.

Este símbolo indica la presencia de alto voltaje en el interior. Es peligroso entrar en contacto con cualquier pieza interior de este producto.

Este símbolo le alerta de que con este producto se incluye documentación importante correspondiente al funcionamiento y mantenimiento.

- Las ranuras y aberturas existentes en la unidad y en la parte trasera o inferior se facilitan para proporcionar la ventilación necesaria. Para garantizar el funcionamiento fiable de este aparato, y para protegerlo frente a sobrecalentamiento, estas ranuras y aberturas nunca deben bloquearse ni cubrirse.
  - No cubra las ranuras y aberturas con un paño o con cualquier otro material.
  - No bloquee las ranuras ni aberturas colocando este aparato sobre la cama, sofá, alfombra o superficie similar.
  - No coloque este aparato en un espacio cerrado, como una librería, o un armario empotrado, a menos que se proporcione una ventilación correcta.
  - Instale el producto conservando la distancia especificada respecto a la pared (vea la información siguiente).
    * Televisores DLP, televisores tipo visualización directa y proyectores → 10 cm
    * Aparatos con una pantalla de 32" o mayor → 5 cm
    * Otros productos → 4 cm
- No coloque este aparato cerca o sobre un radiador o una rejilla de aire caliente, o en lugares expuestos a luz solar directa.
- No coloque recipientes con agua sobre este aparato (jarros, etc.), ya que podría representar riesgo de incendio o descarga eléctrica.
- No exponga este aparato a la lluvia ni lo coloque cerca de agua (cerca de una bañera, lavabo, fregadero o lavadero, en un sótano húmedo ni cerca de una piscina o similar). Si este aparato accidentalmente se moja, desenchúfelo y póngase en contacto inmediatamente con un técnico autorizado. Antes de limpiar el producto desconecte el cable de alimentación de la toma de corriente.
- Este aparato utiliza baterías. En su comunidad puede que existan normativas que requieran la disposición de estas baterías de forma adecuada bajo consideraciones ambientales.
  Póngase en contacto con las autoridades locales para obtener información sobre desecho y reciclaje.
- No sobrecargue las tomas murales, los alargadores ni los receptáculos correspondientes por encima de su capacidad, ya que esto puede generar incendios o descargas eléctricas.
- Los cables de alimentación y protección deben colocarse de forma que no puedan pisarse ni quedar atrapados por objetos encima o contra ellos, poniendo especial atención en los cables cerca del enchufe, los receptáculos de los electrodomésticos y el punto en el que salen del aparato.
- Para proteger este aparato durante una tormenta eléctrica o cuando no lo utilice durante largos periodos de tiempo, desenchúfelo de la toma de la pared y desconecte la antena o el cable del sistema. Esto evitará que el equipo se dañe por rayos o picos de tensión de la línea eléctrica.
- Antes de conectar el cable de alimentación de CA a la toma del adaptador de CC, asegúrese de que la designación del voltaje del adaptador de CC corresponde a la fuente eléctrica local.
- Nunca inserte nada metálico en las aberturas del aparato. Hacerlo así puede crear peligros de descarga eléctrica.
- Para evitar descarga eléctrica, no toque nunca el interior de este aparato. Sólo un técnico calificado debe abrir el alojamiento del aparato.
- Cuando conecte el cable de alimentación compruebe que el enchufe esté firmemente insertado. Para desenchufar el cable de alimentación, sujételo por el enchufe y tire de éste para sacarlo de la toma de corriente. Nunca toque el cable de alimentación con las manos mojadas.
- Si este aparato no funciona normalmente, en concreto, si emite sonidos extraños o desprende olores desde el interior, desenchúfelo inmediatamente y póngase en contacto con el distribuidor autorizado o el centro de servicio técnico.
- Asegúrese de desconectar el enchufe de alimentación de la toma de corriente si la TV ha dejado de utilizarse, o desea salir de casa, durante un largo período de tiempo (especialmente cuando sea necesario dejar solos en casa a niños, ancianos o personas incapacitadas).
  - El polvo acumulado puede provocar una descarga eléctrica, un cortocircuito o un fuego, haciendo que el cable eléctrico genere chispas y calor, o deteriorando la funda protectora.
- Póngase en contacto con un centro de servicio técnico autorizado cuando instale el aparato en un lugar expuesto a gran cantidad de polvo, temperaturas extremas, alto nivel de humedad y productos químicos, y en lugares donde se vaya a utilizar las 24 horas del día, como aeropuertos, estaciones, etc. El incumplimiento de estas indicaciones puede causar serios desperfectos en el aparato.
- Cuando instale el equipo, procure guardar una distancia de más de 10 cm desde la pared para facilitar la ventilación.
- Use sólamente conectores y receptáculos apropiados para hacer la conexión a tierra.
  -Una conexión a tierra inapropiada podría causar una descarga eléctrica o una avería en el equipo. (Sólo equipo de Clase I.)
- Para desconectar el aparato de la corriente, debe desenchufar el cable de la toma principal, por lo que el enchufe principal debe estar siempre fácilmente accesible.
- No permita que los niños jueguen con el producto.
- Guarde los accesorios (pilas, etc.) en un lugar seguro fuera del alcance de los niños.
- No coloque el producto en un lugar inestable, inclinado o expuesto a vibraciones.
- No lo deje caer ni le dé golpes. Si el producto se estropea, desenchufe el cable de alimentación y póngase en contacto con un centro de servicio.
- Desconecte el cable de alimentación de la toma de corriente y seque el aparato con un paño suave y seco. No utilice ningún producto químico como cera, benzol, alcohol, disolventes, insecticida, ambientador de aire, lubricante o detergente. Se puede dañar el aspecto o borrar las estampaciones del producto.
- Evite que cualquier líquido salpique el aparato o gotee sobre él.
- No tire las pilas al fuego.
- No cortocircuite, desmonte ni sobrecaliente las pilas.
- Si la pila no se coloca correctamente se corre el riesgo de una explosión. Reemplace la pila sólo por una igual o de especificaciones equivalentes.
- **ADVERTENCIA - PARA IMPEDIR QUE EL FUEGO SE PROPAGUE, MANTENGA LAS VELAS U OTRAS LLAMAS EXPUESTAS SIEMPRE ALEJADAS DE ESTE PRODUCTO.**

Aviso! Instruções de segurança importantes

(Leia a secção adequada que corresponde à marca no produto Samsung antes de tentar instalar o produto.)

ATENÇÃO

RISCO DE CHOQUE ELECTRICO NÃO ABRA

CUIDADO: PARA REDUZIR O RISCO DE CHOQUE ELÉCTRICO, NÃO RETIRE A TAMPA (NEM A PARTE TRASEIRA). NO INTERIOR DO TELEVISOR NÃO EXISTEM PEÇAS QUE POSSAM SER REPARADAS PELO UTILIZADOR. A ASSISTÊNCIA SÓ PODE SER EFECTUADA POR TÉCNICOS QUALIFICADOS.

Este símbolo indica a existência de alta tensão no interior do televisor. É perigoso tocar em qualquer parte no interior do produto.

Este símbolo informa-o de que este produto inclui literaturaimportante sobre o respectivo funcionamento e manutenção.

- As ranhuras e aberturas na caixa e na parte posterior ou inferior permitem a ventilação necessária. Para garantir o funcionamento correcto do aparelho e para o proteger do sobreaquecimento, nunca deve bloquear ou tapar estas ranhuras e aberturas.
  - Não tape as ranhuras e aberturas com panos ou outros materiais.
  - Não bloqueie as ranhuras e aberturas colocando o aparelho numa cama, sofá, tapete ou outra superfície semelhante.
  - Não coloque este aparelho num espaço fechado, como uma estante ou um armário embutido, a menos que tenha ventilação adequada.
  - Instale o produto, mantendo a distância da parede especificada (consulte as informações abaixo.)
    * Televisores DLP, Televisores do Tipo Direct View e Projectores → 10 cm
    * Produtos com visores de 32 polegadas ou maiores → 5 cm
    * Outros produtos → 4 cm
- Não coloque este aparelho perto ou por cima de um radiador, sistema de aquecimento ou num local em que esteja exposto à incidência directa dos raios solares.
- Não coloque recipientes com água em cima do aparelho (jarras etc.), porque pode provocar um incêndio ou choque eléctrico.
- Não exponha o aparelho à chuva nem coloque em locais perto de água (perto de uma banheira, lavatório, lava-loiça, tubo da máquina de lavar a loiça, piscina ou numa cave com humidade). Se molhar acidentalmente o aparelho, desligue-o da ficha e contacte de imediato o revendedor autorizado. Retire sempre o cabo de alimentação da tomada antes de limpar o produto.
- Este aparelho tem pilhas. Deite fora as pilhas adequadamente de acordo com as considerações ambientais existentes no seu país. Contacte as autoridades locais para obter informações sobre a destruição ou reciclagem de pilhas.
- Não sobrecarregue tomadas de parede, extensões nem receptáculos, porque pode provocar um incêndio ou choque eléctrico.
- Deve colocar os cabos de alimentação de forma a não serem pisados nem entalados por objectos, tendo em especial atenção os cabos ligados a fichas, a receptáculos e ao ponto de onde os cabos saem do aparelho.
- Para proteger o aparelho de trovoadas, ou quando não for utilizá-lo durante longos períodos de tempo, desligue o aparelho da tomada de parede e desligue a antena ou o sistema de televisão por cabo.
  Deste modo, o aparelho não sofre eventuais danos provocados por raios e descargas em cabos de alta tensão.
- Antes de ligar o cabo de alimentação de CA à tomada do transformador de CC, certifique-se de que a designação de tensão do transformador de CC corresponde à alimentação eléctrica local.
- Nunca introduza objectos metálicos nas aberturas do aparelho. Se o fizer, pode provocar choques eléctricos.
- Para evitar choques eléctricos, nunca toque no interior do aparelho. A caixa do aparelho só deve ser aberta por técnicos qualificados.
- Introduza o cabo de alimentação completamente até ao fim. Quando retirar o cabo de alimentação, certifique-se de que o segura pela ficha quando puxar a mesma da tomada. Não toque no cabo de alimentação com as mãos molhadas.
- Se o aparelho não funcionar normalmente - em particular, se o aparelho emitir ruídos ou cheiros invulgares – desligue o aparelho de imediato e contacte o revendedor autorizado ou centro de assistência técnica.
- Certifique-se de que retira a ficha de alimentação da tomada se o aparelho de televisão não for utilizado ou se o utilizador não estiver em casa durante um período de tempo longo (especialmente quando crianças, idosos ou pessoas com deficiências forem deixadas sozinhas em casa).
  - Poeira acumulada pode provocar um choque eléctrico, uma fuga eléctrica ou um incêndio, fazendo com que o fio de alimentação produza faíscas e aqueça ou deteriore o isolamento.
- Contacte um centro autorizado de assistência técnica quando instalar o produto em locais sujeitos a poeiras excessivas, locais sujeitos a temperaturas altas ou baixas, locais com muita humidade, locais onde se utilizem substâncias químicas e locais onde o monitor esteja a funcionar 24 horas por dia como em aeroportos, estações de comboio, etc. Se não o fizer, pode provocar sérios danos no produto.
- Utilize uma ficha e uma tomada devidamente ligadas à terra.
  -Uma ligação de terra deficiente pode causar choque eléctrico ou danos no equipamento. (Só equipamento de classe 1.)
- Deve puxar a ficha da tomada para desligar o aparelho da corrente, de forma a deixar a ficha pronta a ser utilizada.
- Não deixe as crianças mexer no produto.
- Guarde os acessórios (bateria, etc.) num local seguro fora do alcance das crianças.
- Não instale o produto num local instável, como uma prateleira inclinada, um chão desnivelado ou um local exposto à vibração.
- Não deixe cair ou provoque qualquer embate no produto. Se o produto estiver danificado, desligue o cabo de alimentação e contacte um centro de assistência.
- Desligue o cabo de alimentação da tomada e utilize um pano seco e macio para limpar o produto. Não utilize quaisquer produtos químicos como cera, benzina, álcool, diluentes, insecticida, ambientador, lubrificante ou detergente. Tal pode danificar o aspecto do produto ou eliminar a impressão do mesmo.
- Não deixe cair gotas ou salpicos em cima do aparelho.
- Não destrua as pilhas através de fogo.
- Não provoque curto-circuito, nem desfaça ou sobreaqueça as pilhas.
- Existe perigo de explosão se a pilha for substituída incorrectamente. Substitua-a apenas pelo mesmo tipo de pilha ou por uma equivalente.
- **AVISO - PARA EVITAR O ALASTRAR DE UM INCÊNDIO, MANTENHA SEMPRE AS VELAS OU OUTRO TIPO DE CHAMA LONGE DESTE PRODUTO.**

Regulatory Compliance Statements

Your Samsung product compliance class is marked in the user manual.

- Federal Communications Commission (FCC) - USA
- Industry Canada Equipment Standard for Digital Equipment (ICES-003) - Canada
- Voluntary Control Council for Interference (VCCI) - Japan
- Bureau of Standards Metrology and Inspection (BSMI) - Taiwan
- Korea Communications Commission (KCC) - Republic of Korea
- Italian Post Ministry (Homologation) - Italy

FCC Class A Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE:
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Class B Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult with your dealer or an experienced radio/television technician for additiona suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful.
This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office. Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance:

SAMSUNG ELECTRONICS CO., LTD.
America QA Lab of Samsung
3351 Michelson Drive
Suite #290, Irvine, CA92612 USA

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.
Provided with this monitor is a detachable power supply cord with IEC320 style terminations.
It may be suitable for connection to any UL Listed personal computer with similar configuration.
Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal or exceeds the monitor voltage rating.
For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.
This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules. (TV broadcast receivers with picture screens 13 inches or larger in diameter models only)

ICES-003 Class A Notice - Avis NMB-003, Classe A
This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

ICES-003 Class B Notice - Avis NMB-003, Classe B
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

VCCI Class A Notice
この装置は、情報処理装置等電波障害自主規制協議(VCCI)の基準に基づくクテスA情報技術装置です。
この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。
この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI Class B Notice
この装置は、情報処理装置等電波障害自主規制協議(VCCI)の基準に基づくクテスB情報技術装置です。
この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

CCC Class A notice - China
此为A级产品，在生活环境中，该产品可能会造成无线电干扰。
在这种情况下，可能需要用户对其干扰采取切实可行的措施。

BSMI Class A Notice
The following statement is applicable to products shipped to Taiwan and marked as Class A on the product compliance label.

警告使用者：
這是甲類資訊類產品，在居住環境中使用時，可能會造成射頻幹擾，在這種情況下，
使用者會被要求採取某些適當的對策。

European Notice(Europe Only)
Products with the CE marking comply with the EMC Directive(2004/108/EC) and the Low Voltage Directive(2006/95/EC) issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European Norms:
- EN55022: Radio Frequency Interference
- EN55024: Electromagnetic Immunity of Information Technology Equipment
- EN61000-3-2: Power Line Harmonics
- EN61000-3-3: Voltage Fluctuations
- EN55013: Radio disturbance characteristics of broadcast receivers and associated equipments
- EN55020: Electromagnetic immunity of broadcast receivers and associated equipments

European Class A Warning
(If the user manual declares the product as Class A, following statement applies.)
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

업무용 방송통신기기 A급기기 (KCC Class A Notice)
이 기기는 업무용(A급)으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

가정용 방송통신기기 B급기기 (KCC Class B Notice)
이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Italian Homologation Notice
Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548
ed in particolare a quanto specificato nell Art.2, comma 1.
Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548
Art.2, comma 1 ed al D.M.26.03.92 Art.1
-. For products produced in countries except European Community
Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548
ed in particolare a quanto specificato nell Art.2, comma 1.
-. For products produced in European Community
Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548
Art.2, comma 1 ed al D.M.26.03.92 Art.1

Important Safety Instructions (UL Only)

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

• *Ventilation*
Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting and installation.

• *ENERGYSTAR qualified model only*
- Your Samsung TV is ENERGYSTAR qualified in its factory default settings. Change to certain features, settings and functionality in this TV can change the power consumption, possibly beyond the limits required for ENERGYSTAR qualification.
- As an ENERGY STAR Partner, Samsung has determined that this product or product models meets the ENERGY STAR guidelines for energy efficiency.

ENERGY STAR PARTNER

Mercury Statement (USA only)

Contains Mercury, Dispose According to Local, State or Federal Laws

AA68-03242L-07

SAMSUNG BRAND PRODUCTS

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of: **(90 Days Parts and Labor for Commercial Use)**

Categories	Parts	Labor	Size	Service
LCD/LED TV	1 Year	1 Year	40" and Larger	Carry-In or In Home
			37" and Smaller	Carry-In
Plasma Display	1 Year	1 Year	All	Carry-In or In Home
Projector (Excluding Lamp **)	2 Year	2 Year	All	Carry-In or Pick up
PICO & LED Pocket Projector	1 Year	1 Year	All	Carry-In or Pick up

** 180 Days after Purchasing and 600 Hours of Use Lamp on Projector

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

Certain products are eligible for In-home service at Samsung's discretion. To receive in-home service, the product must be unobstructed and accessible to service personnel. If during in-home service repair can not be completed, it may be necessary to remove, repair and return the product. If in-home service is unavailable, SAMSUNG may elect, at our option, to provide for transportation of our choice to and from a SAMSUNG authorized service center. Otherwise, and for 37" and smaller LCD/LED TV, transportation to and from the SAMSUNG authorized service center is the responsibility of the purchaser.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, and except to the extent otherwise expressly provided for in this statement, noncommercial use of this product, and shall not apply to the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning or other acts of nature; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied or authorized by SAMSUNG which damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the instruction book; reception problems and distortion related to noise, echo, interference or other signal transmission and delivery problems; brightness related to normal aging, or burned-in images. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED AND DESCRIBED ABOVE, AND NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AFTER THE EXPRESS WARRANTY PERIODS STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG. SAMSUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST SAMSUNG BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SAMSUNG AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO PURCHASER AND PURCHASER'S PROPERTY AND TO OTHERS AND THEIR PROPERTY

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Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
To obtain warranty service, please contact SAMSUNG at:

Samsung Electronics America, Inc.
85 Challenger Road
Ridgefield Park, NJ 07660-2112
1-800-SAMSUNG (7267864) – www.samsung.com
1-800-749-0260 : Only Projector

IMPORTANT WARRANTY INFORMATION REGARDING TELEVISION FORMAT VIEWING

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying any stationary images that exceed the above guidelines can cause uneven aging of Plasma Display Panels that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven Plasma Display Panels aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

BP68-00263E-03